



# A STUDY OF ASSOCIATION IN INSANITY

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## PART I.

### ASSOCIATION IN NORMAL SUBJECTS.

Among the most striking and commonly observed manifestations of insanity are certain disorders of the flow of utterance which appear to be dependent upon a derangement of the psychical processes commonly termed association of ideas. These disorders have to some extent been made the subject of psychological experimentation, and the object of this investigation is to continue and extend the study of these phenomena by an application of the experimental method known as the association test.

#### § I. METHOD OF INVESTIGATION.

In this investigation we have followed a modified form of the method developed by Sommer,<sup>1</sup> the essential feature of which is the statistical treatment of results obtained by uniform technique from a large number of cases.

The stimulus consists of a series of one hundred spoken words, to each of which the subject is directed to react by the first word which it makes him think of. In the selection of the stimulus words, sixty-six of which were taken from the list suggested by Sommer, we have taken care to avoid such words as are especially liable to call up personal experiences, and have so arranged the words as to separate any two which bear an obviously close relation to one another. After much preliminary experimentation we adopted the following list of words:

1 Table	11 Black	21 Sweet	31 Rough	41 High
2 Dark	12 Mutton	22 Whistle	32 Citizen	42 Working
3 Music	13 Comfort	23 Woman	33 Foot	43 Sour
4 Sickness	14 Hand	24 Cold	34 Spider	44 Earth
5 Man	15 Short	25 Slow	35 Needle	45 Trouble
6 Deep	16 Fruit	26 Wish	36 Red	46 Soldier
7 Soft	17 Butterfly	27 River	37 Sleep	47 Cabbage
8 Eating	18 Smooth	28 White	38 Anger	48 Hard
9 Mountain	19 Command	29 Beautiful	39 Carpet	49 Eagle
10 House	20 Chair	30 Window	40 Girl	50 Stomach

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<sup>1</sup> Diagnostik der Geisteskrankheiten, p. 112.

51 Stem	61 Memory	71 Stove	81 Butter	91 Moon
52 Lamp	62 Sheep	72 Long	82 Doctor	92 Scissors
53 Dream	63 Bath	73 Religion	83 Loud	93 Quiet
54 Yellow	64 Cottage	74 Whiskey	84 Thief	94 Green
55 Bread	65 Swift	75 Child	85 Lion	95 Salt
56 Justice	66 Blue	76 Bitter	86 Joy	96 Street
57 Boy	67 Hungry	77 Hammer	87 Red	97 King
58 Light	68 Priest	78 Thirsty	88 Heavy	98 Cheese
59 Health	69 Ocean	79 City	89 Tobacco	99 Blossom
60 Bible	70 Head	80 Square	90 Baby	100 Afraid

No attempt is made to secure uniformity of external conditions for the test; the aim has been rather to make it so simple as to render strictly experimental conditions unnecessary. The test may be made in any room that is reasonably free from distracting influences; the subject is seated with his back toward the experimenter, so that he cannot see the record; he is requested to respond to each stimulus word by one word, the first word that occurs to him other than the stimulus word itself, and on no account more than one word. If an untrained subject reacts by a sentence or phrase, a compound word, or a different grammatical form of the stimulus word, the reaction is left unrecorded, and the stimulus word is repeated at the close of the test.

In this investigation no account is taken of the reaction time. The reasons for this will be explained later.

The general plan has been first to apply the test to normal persons, so as to derive empirically a normal standard and to determine, if possible, the nature and limits of normal variation; and then to apply it to cases of various forms of insanity and to compare the results with the normal standard, with a view to determining the nature of pathological variation.

## § 2. THE NORMAL STANDARD.

In order to establish a standard which should fairly represent at least all the common types of association and which should show the extent of such variation as might be due to differences in sex, temperament, education, and environment, we have applied the test to over one thousand normal subjects.

Among these subjects were persons of both sexes and of ages ranging from eight years to over eighty years, persons following different occupations, possessing various degrees of mental capacity and education, and living in widely separated localities. Many were from Ireland, and some of these had but recently arrived in this country; others were from different parts of Europe,

but all were able to speak English with at least fair fluency. Over two hundred of the subjects, including a few university professors and other highly practiced observers, were professional men and women or college students. About five hundred were employed in one or another of the New York State hospitals for the insane, either as nurses and attendants or as workers at various trades; the majority of these were persons of common school education, but the group includes also, on the one hand, a considerable number of high school graduates; and on the other hand, a few laborers who were almost or wholly illiterate. Nearly one hundred and fifty of the subjects were boys and girls of high school age, pupils of the Ethical Culture School, New York City. The remaining subjects form a miscellaneous group, consisting largely of clerks and farmers.

### § 3. THE FREQUENCY TABLES.

From the records obtained from these normal subjects, including in all 100,000 reactions, we have compiled a series of tables, one for each stimulus word, showing all the different reactions given by one thousand subjects in response to that stimulus word, and the frequency with which each reaction has occurred.<sup>2</sup> These tables will be found at the end of this paper.

With the exception of a few distinctive proper names, which are indicated by initials, we have followed the plan of introducing each word into the table exactly as it was found in the record. In the arrangement of the words in each table, we have placed together all the derivatives of a single root, regardless of the strict alphabetical order.<sup>3</sup>

<sup>2</sup> A similar method of treating associations has been used by Cattell (*Mind*, Vol. XII, p. 68; Vol. XIV, p. 230), and more recently by Reinhold (*Zeitschr. f. Psychol.*, Vol. LIV, p. 183), but for other purposes.

<sup>3</sup> It should be mentioned that we have discovered a few errors in these tables. Some of these were made in compiling them from the records, and were evidently due to the assistant's difficulty of reading a strange handwriting. Other errors have been found in the records themselves. Each of the stimulus words *butter*, *tobacco* and *king* appears from the tables to have been repeated by a subject as a reaction; such a reaction, had it occurred, would not have been accepted, and it is plain that the experimenter wrote the stimulus word in the space where the reaction word should have been written. Still other errors were due to the experimenter's failure to

The total number of different words elicited in response to any stimulus word is limited, varying from two hundred and eighty words in response to *anger* to seventy-two words in response to *needle*. Furthermore, for the great majority of subjects the limits are still narrower; to take a striking instance, in response to *dark* eight hundred subjects gave one or another of the following seven words: *light, night, black, color, room, bright, gloomy*; while only two hundred gave reactions other than these words; and only seventy subjects, out of the total number of one thousand, gave reactions which were not given by any other subject.

If any record obtained by this method be examined by referring to the frequency tables, the reactions contained in it will fall into two classes: the *common* reactions, those which are to be found in the tables, and the *individual* reactions, those which are not to be found in the tables. For the sake of accuracy, any reaction word which is not found in the table in its identical form, but which is a grammatical variant of a word found there, may be classed as *doubtful*.

The value of any reaction may be expressed by the figure representing the percentage of subjects who gave it. Thus the reaction, *table—chair*, which was given by two hundred and sixty-seven out of the total of our one thousand subjects, possesses a value of 26.7 per cent. The significance of this value from the clinical standpoint will be discussed later.

#### § 4. NORMAL ASSOCIATIONAL TENDENCIES.

The normal subjects gave, on the average, 6.8 per cent of individual reactions, 1.5 per cent of doubtful ones, and 91.7 per cent of common ones. The range of variation was rather wide, a considerable number of subjects giving no individual reactions at all, while a few gave over 30 per cent.<sup>4</sup>

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speak with sufficient distinctness when reading off the stimulus words; thus, the reaction *barks* in response to *dark* indicates that the stimulus word was probably understood as *dog*; and the reactions *blur* and *color* in response to *bread* indicate that the stimulus word was understood as *red*.

<sup>4</sup>In the study of the reactions furnished by our normal subjects it was possible to analyze the record of any subject only by removing it from the mass of material which forms our tables, and using as the standard of comparison the reactions of the remaining 999 subjects.

In order to determine the influence of age, sex, and education upon the tendency to give reactions of various values, we have selected three groups of subjects for special study: (1) one hundred persons of collegiate or professional education; (2) one hundred persons of common school education, employed in one of the State hospitals as attendants, but not as trained nurses; and (3) seventy-eight children under sixteen years of age. The reactions given by these subjects have been classified according to frequency of occurrence into seven groups: (a) individual reactions (value 0); (b) doubtful reactions (value  $\pm$ ); (c) reactions given by one other person (value 0.1 per cent); (d) those given by from two to five others (value 0.2—0.5 per cent); (e) those given by from six to fifteen others (value 0.6—1.5 per cent); (f) those given by from sixteen to one hundred others (value 1.6—10.0 per cent); and (g) those given by more than one hundred others (value over 10.0 per cent). The averages obtained from these groups of subjects are shown in Table I, and the figures for men and women are given separately.

TABLE I.

Value of reactions			0	$\pm$	0.1%	0.2-0.5%	0.6-1.5%	1.6-10%	Over 10%
	Sex	Number of cases	%	%	%	%	%	%	%
Persons of collegiate education	M. ....	00	9.2	1.3	5.2	9.7	11.0	27.8	35.5
	F. ....	40	9.5	1.3	3.9	9.8	11.7	28.9	33.4
	Both ..	100	9.3	1.3	4.7	9.7	11.3	28.2	34.4
Persons of common school education	M. ....	50	5.8	1.6	3.6	8.3	10.2	31.6	38.7
	F. ....	50	4.6	1.3	3.3	7.1	9.4	32.0	42.1
	Both ..	100	5.2	1.4	3.5	7.7	9.8	31.8	40.4
School children under 16 years of age	M. ....	33	5.9	0.8	4.2	8.7	10.6	28.5	38.5
	F. ....	45	5.6	1.9	4.6	9.8	11.6	30.1	36.7
	Both ..	78	5.7	1.4	4.5	9.3	11.2	29.4	37.4
General average....Both ..1000			6.8	1.5					

It will be observed that the proportion of individual reactions given by the subjects of collegiate education is slightly above the general average for all subjects, while that of each of the other classes is below the general average. In view, however, of the wide limits of variation among the thousand subjects, these deviations from the general average are no larger than might quite possibly occur by chance, and the number of cases in each group is so small that the conclusion that education tends to increase the number of individual reactions would hardly be justified.

It will be observed also that this comparative study does not show any considerable differences corresponding to age or sex.

With regard to the type of reaction, it is possible to select groups of records which present more or less consistently one of the following special tendencies: (1) the tendency to react by contrasts; (2) the tendency to react by synonyms or other defining terms; and (3) the tendency to react by qualifying or specifying terms. How clearly the selected groups show these tendencies is indicated by Table II. The majority of records, however, present no such tendency in a consistent way; nor is there any evidence to show that these tendencies, when they occur, are to be regarded as manifestations of permanent mental characteristics, since they might quite possibly be due to a more or less accidental and transient associational direction. No further study has as yet been made of these tendencies, for the reason that they do not appear to possess any pathological significance.

TABLE II.

Stimulus word.	Reaction word.	General value.	Special group values.					
			Contrasting group		Defining group		Specifying group	
			49 subjects.		73 subjects.		84 subjects.	
		%	No.	%	No.	%	No.	%
1. Table....	chair .....	26.7	25	51.0	11	15.1	10	11.9
	furniture .....	7.5	0	0	13	17.8	4	4.8
	round .....	1.0	1	2.0	0	0	4	4.5
	wood .....	7.6	2	4.1	9	12.3	10	11.9
7. Soft....	cotton .....	2.8	0	0	1	1.4	5	6.0
	easy .....	3.4	0	0	8	11.0	1	1.2
	feathers .....	2.4	0	0	1	1.4	5	6.0
	hard .....	36.5	34	69.4	14	19.2	18	21.4
	silk .....	1.0	0	0	0	0	2	2.4
11. Black...	sponge .....	2.2	0	0	0	0	4	4.8
	cloth .....	1.7	1	2.0	0	0	3	3.6
	color .....	12.9	0	0	20	27.4	6	7.1
	dress .....	2.9	1	2.0	1	1.4	9	10.7
	ink .....	1.4	0	0	1	1.4	4	4.8
26. Wish....	white .....	33.9	31	63.3	17	23.3	18	21.4
	desire .....	19.7	7	14.3	21	28.8	10	11.9
	longing .....	1.9	1	2.0	6	8.2	2	2.4
29. Beau- tiful.	money .....	3.2	0	0	1	1.4	3	3.6
	flowers .....	4.2	0	0	1	1.4	7	8.3
	girl .....	2.4	0	0	0	0	5	6.0
	homely .....	2.7	3	6.1	0	0	0	0
	lovely .....	6.4	2	4.1	7	9.6	2	2.4
	pleasing .....	1.6	0	0	3	4.1	0	0
	sky .....	1.6	0	0	0	0	3	3.6
	ugly .....	6.6	13	26.5	3	4.1	0	0

TABLE II.—Continued.

56. Justice..	court .....	6.4	2	4.1	5	6.8	10	11.9
	injustice .....	2.6	6	12.2	1	1.4	0	0
	right .....	15.7	3	6.1	20	27.4	13	15.5
59. Health..	comfort .....	2.6	0	0	5	6.8	1	1.2
	disease .....	0.9	2	4.1	0	0	1	1.2
	good .....	9.4	2	4.1	8	11.0	18	21.4
	sickness .....	15.3	23	46.9	6	8.2	1	1.2
	strength .....	11.2	2	4.1	12	16.4	4	4.8
65. Swift...	arrow .....	1.3	0	0	0	0	2	2.4
	fast .....	22.2	0	0	25	34.2	15	17.9
	horse .....	2.8	1	2.0	1	1.4	6	7.1
	quick .....	11.7	1	2.0	22	30.1	2	2.4
	run .....	1.9	0	0	0	0	4	4.8
	runner .....	1.3	0	0	0	0	1	1.2
	slow .....	19.0	30	61.2	2	2.7	4	4.8
	speed .....	2.9	1	2.0	5	6.8	0	0
76. Bitter...	disagreeable ....	1.0	0	0	2	2.7	0	0
	distasteful .....	1.0	0	0	4	5.5	0	0
	gall .....	4.2	0	0	2	2.7	3	9.5
	medicine .....	3.7	0	0	0	0	3	3.6
	quinine .....	2.3	0	0	0	0	6	7.1
	sweet .....	30.5	31	63.3	8	11.0	12	14.3
	taste .....	6.6	1	2.0	17	23.3	3	3.6
81. Butter...	bread .....	20.6	17	34.7	4	5.5	18	21.4
	eatable .....	1.2	0	0	9	12.3	0	0
	food .....	6.3	1	2.0	14	19.2	3	3.6
	sweet .....	1.2	0	0	0	0	3	3.6
	yellow .....	8.0	0	0	0	0	18	21.4
86. Joy.....	gladness .....	4.4	0	0	7	9.6	1	1.2
	grief .....	1.8	4	8.2	0	0	0	0
	pleasure .....	12.1	1	2.0	13	17.8	7	8.3
	sadness .....	1.3	2	4.1	0	0	0	0
	sorrow .....	13.5	23	46.9	2	2.7	2	2.4

## § 5. PRACTICAL CONSIDERATIONS.

This method is so simple that it requires but little training on the part of the experimenter, and but little co-operation on the part of the subject. It is not to be assumed that every reaction obtained by it is a true and immediate association to the corresponding stimulus word; but we have found it sufficient for the purpose of the test if the subject can be induced to give, in response to each stimulus word, any one word other than the stimulus word itself. No attempt is made to determine the exact degree of co-operation in any case.



In the early stages of this investigation the reaction time was regularly recorded. The results showed remarkable variations, among both normal and insane subjects. In a series of twenty-five tests, made more recently upon normal subjects, ninety reactions occupied more than ten seconds, and fifty-four of the stimulus words elicited a ten-second response from at least one subject.<sup>5</sup>

It is noteworthy that these extremely long intervals occur in connection with reactions of widely differing values. That they are by no means limited to individual reactions is shown in Table III. by a group of selected reactions, all given by normal subjects.

TABLE III.

Word combination	Reaction time in seconds.	Value of reaction.
comfort—happiness .....	20	5.0%
short—long .....	11	27.9%
smooth—plane .....	16	2.3%
woman—lady .....	40	4.1%
hard—iron .....	12	2.4%
justice—judge .....	20	9.1%
memory—thought .....	20	8.1%
joy—pleasure .....	18	12.1%

It is apparent, even from a superficial examination of the material, that the factors which cause variations of reaction time, both in the normal state and in pathological states, are numerous and complex.

It has been the purpose of this study to establish as far as possible strictly objective criteria for distinguishing normal from abnormal associations, and for this reason we have made no attempt to determine by means of introspection the causes of variations of reaction time.

It would seem that the importance and magnitude of the problem of association time are such as to demand not merely a crude measurement of the gross reaction time in a large number of cases, but rather a special investigation by such exact methods as have been used by Cattell<sup>6</sup> and others in the analysis of the complex reaction. It would be impracticable for us to employ such methods in a study so extensive as this.

In view of these considerations we discontinued the recording of the reaction time.

<sup>5</sup> These tests were made by Dr. F. Lyman Wells, of the McLean Hospital, Waverley, Mass., and he has kindly furnished these data.

<sup>6</sup> Mind, Vol. XI, 1886.

If the association test is to be useful in the study of pathological conditions, it is of great importance to have a reliable measure of the associational value of a pair of ideas. Many attempts have been made to modify and amplify the classical grouping of associations according to similarity, contrast, contiguity, and sequence, so as to make it serviceable in differentiating between normal and abnormal associations.

In this study we attempted to apply Aschaffenburg's<sup>7</sup> classification of reactions, but without success. Our failure to utilize this system of classification is assigned to the following considerations: (1) Distinctions between associations according to logical relations are extremely difficult to define; in many cases there is room for difference of opinion as to the proper place for an association, and thus the application of a logical scheme depends largely upon the personal equation of the observer; that even experienced observers cannot, in all cases, agree in placing an association is shown by Aschaffenburg's criticisms of the opinions of other observers on this point.<sup>8</sup> (2) Logical distinctions do not bring out clearly the differences between the reactions of normal subjects and those of insane subjects; logically, the reaction *bath—ink*, which was given by a patient, might be placed in the class with the reaction *bath—water*, although there is an obvious difference between the two reactions. (3) Many of the reactions given by insane subjects possess no obvious logical value whatever; but since any combination of ideas may represent a relationship, either real or imagined, it would be arbitrary to characterize such a reaction as incoherent.

The criterion of values which is used in this study is an empirical one. As has already been explained (p. 8), every word contained in the frequency tables possesses a value of at least 0.1 per cent, and other words have a zero value. With the aid of our method the difficulty of classifying the reactions quoted above is obviated, as it is necessary only to refer to the table to find their proper values: the value of the reaction *bath—water* is 33.9 per cent, while that of the reaction *bath—ink* is 0.

<sup>7</sup> Experimentelle Studien über Association. Psychologische Arbeiten, Vol. I, p. 209; Vol. II, p. 1; Vol. IV, p. 235.

<sup>8</sup> Loc. cit., Vol. I, pp. 226-227.

Logically the combination *health—wealth* may be placed in any one of four classes, as follows:

health—wealth	{	intrinsic	{	causal dependence
				coordination
	{	extrinsic	{	speech reminiscence
				sound similarity

But since our table shows this association to have an empirical value of 7.6 per cent, it becomes immaterial which of its logical relations is to be considered the strongest. It is mainly important, from our point of view, to separate reactions possessing an empirical value from those whose value is zero.

#### § 6. AN EMPIRICAL PRINCIPLE OF NORMAL ASSOCIATION.

On a general survey of the whole mass of material which forms the basis of the first part of this study, we are led to observe that *the one tendency which appears to be almost universal among normal persons is the tendency to give in response to any stimulus word one or another of a small group of common reactions.*

It appears from the pathological material now on hand that this tendency is greatly weakened in some cases of mental disease. Many patients have given more than 50 per cent of individual reactions.

It should be mentioned that occasionally a presumably normal subject has given a record very similar to those obtained from patients, in respect to both the number and the nature of the individual reactions. A few subjects who gave peculiar reactions were known to possess significant eccentricities, and for this reason we excluded their records from the thousand records which furnished the basis for the frequency tables; we excluded also a few peculiar records obtained from subjects of whom nothing was known, on the ground that such records would serve only to make the tables more cumbersome, without adding anything to their practical value. The total number of records thus excluded was seventeen.

It will be apparent to anyone who examines the frequency tables that the reactions obtained from one thousand persons fall short of exhausting the normal associational possibilities of these stimulus words. The tables, however, have been found to be sufficiently inclusive for the practical purpose which they were intended to

serve. Common reactions, whether given by a sane or an insane subject, may, in the vast majority of instances, safely be regarded as normal. As to individual reactions, they cannot all be regarded as abnormal, but they include nearly all those reactions which are worthy of special analysis in view of their possible pathological significance. What can be said further of individual reactions, whether normal or abnormal, will appear in the second part of this contribution.

## PART II.

### ASSOCIATION IN INSANE SUBJECTS.

#### § I. GENERAL SURVEY OF PATHOLOGICAL MATERIAL.

The pathological material which forms the basis of the present part of our study consists mainly of two hundred and forty-seven test records obtained for the most part from patients at the Kings Park State Hospital.

The different groups from which the cases were selected, together with the number from each group, are shown in Table I.

TABLE I.

Dementia præcox .....	108 cases.
Paranoic conditions .....	33 "
Epilepsy .....	24 "
General paresis .....	32 "
Manic-depressive insanity .....	32 "
Involuntional melancholia .....	8 "
Alcoholic psychoses .....	6 "
Senile dementia .....	4 "

A comparison of our pathological with our normal material *en masse* reveals in the former evidence of a weakening of the normal tendency to respond by common reactions. This is shown in Table II.

TABLE II.

	Common reactions.	Doubtful reactions.	Individual reactions.
1,000 normal subjects .....	91.7%	1.5%	6.8%
247 insane subjects .....	70.7%	2.5%	26.8%

It seems evident from this that pathological significance attaches mainly to individual reactions, so that our study resolves itself largely into (1) an analysis and classification of individual reactions and (2) an attempt to determine what relationship, if any, exists between the different types of reactions and the different clinical forms of mental disease.

## § 2. CLASSIFICATION OF REACTIONS.

Those who have attempted to use the association test in the study of insanity have felt the need of a practical classification of reactions, and have at the same time encountered the difficulty of establishing definite criteria for distinguishing the different groups from one another. It is a comparatively simple matter to make these distinctions in a general way and even to formulate a more or less comprehensive theoretical classification, but there still remains much difficulty in practice. We have made repeated attempts to utilize various systems of classification which involve free play of personal equation in their application. Although for us the matter is greatly simplified by the elimination of all the common reactions with the aid of the frequency tables, we have nevertheless met with no success. The distinctions made by either of us have on no occasion fully satisfied, at the second reading, either the one who made them or the other, while a comparison of the distinctions made by each of us independently has shown a disagreement to the extent of 20—35 per cent.

We sought, therefore, to formulate a classification in which the various groups should be so defined as to obviate the interference of personal equation in the work of applying it, hoping thus to achieve greater accuracy. In this we can lay claim to only partial success; for, in the first place, having satisfactorily defined a number of groups, we found it necessary in the end to provide a special group for unclassified reactions, into which falls more than one-third of the total number of individual reactions; and, in the second place, in at least two of our groups the play of personal equation has not been entirely eliminated, so that there is still a possibility of error to the extent of five per cent of individual reactions, which means approximately one per cent of the total number of reactions. We have found, however, that in spite of these shortcomings the classification here proposed is more serviceable than others which, though more comprehensive, are at the same time lacking in definiteness.

Our classification consists of the following classes, groups and subdivisions:

- I. *Common reactions.*
  - 1. Specific reactions.
  - 2. Non-specific reactions.
- II. *Doubtful reactions.*
- III. *Individual reactions.*
  - 1. Normal reactions.
  - 2. Pathological reactions:
    - A. Derivatives of stimulus words.
    - B. Partial dissociation:
      - (a) Non-specific reactions.
      - (b) Sound reactions:
        - a.* Words.
        - β.* Neologisms.
      - (c) Word complements.
      - (d) Particles of speech.
    - C. Complete dissociation:
      - (a) Perseveration:
        - a.* Association to preceding stimulus.
        - β.* Association to preceding reaction.
        - γ.* Repetition of preceding stimulus.
        - δ.* Repetition of previous stimulus.
        - e.* Repetition of preceding reaction.
        - ζ.* Repetition of previous reaction.
        - η.* Reaction repeated five times (stereotypy).
      - (b) Neologisms without sound relation.
- 3. Unclassified.

### § 3. NON-SPECIFIC REACTIONS; DOUBTFUL REACTIONS.

**Non-specific Reactions.**—It has already been intimated that common reactions are in the vast majority of instances to be regarded as normal. From amongst them, however, a fairly definite group can be separated out which seems to possess some pathological significance, namely, the group which we have termed non-specific.

In this group are placed words which are so widely applicable as to serve as more or less appropriate reactions to almost any of our stimulus words. That such reactions are in value inferior to the remaining group of common reactions, which we have termed, in contradistinction, *specific reactions*, is perhaps sufficiently obvious; we shall speak later, however, of their occurrence in both normal and insane cases.

It is not always easy to judge whether or not a given reaction should be classed as non-specific. A study of our material made with special reference to this type of reactions has enabled us to select the following list of words, any of which, occurring in response to any stimulus word, is classed as a non-specific reaction :

article, articles  
bad  
beautiful, beauty  
fine  
good, goodness  
great  
happiness, happy  
large  
man  
necessary, necessity  
nice  
object (noun)  
people  
person  
pleasant, pleasantness, pleasing, pleasure  
pretty  
small  
thinking, thought, thoughts  
unnecessary  
unpleasant  
use, used, useful, usefulness, useless, uselessness, uses, using  
woman  
work

It should be mentioned that some of these words occur as reactions to one or several stimulus words with such frequency (*citizen—man*, value 27.8 per cent; *health—good*, value 9.4 per cent) as to acquire in such instances a value as high as that of strictly specific reactions.

**Doubtful Reactions** have already been defined (p. 40) : any reaction word which is not found in the table in its identical form, but which is a grammatical variant or derivative of a word found there, is placed in this group.



#### § 4. INDIVIDUAL REACTIONS; EXPLANATION OF GROUPS AND METHODS OF APPLICATION.

**Normal Reactions.**—Inasmuch as the frequency tables do not exhaust all normal possibilities of reaction, a certain number of reactions which are essentially normal are to be found among the individual reactions. In order to separate these from the pathological reactions, we have compiled an appendix to the frequency tables, consisting mainly of specific definitions of groups of words to be included under each stimulus word in our list. This appendix will be found at the end of this paper.

A word of explanation is perhaps due as to the manner in which the appendix has been compiled. It was developed in a purely empirical way, the basis being such individual reactions, given by both normal and insane subjects, as seemed in our judgment to be obviously normal.

It must be acknowledged that the appendix falls short of all that might be desired. In the first place, its use involves to some slight extent the play of personal equation, and it therefore constitutes a source of error; in the second place, it is in some respects too inclusive while in other respects it is not sufficiently so. However, the error due to personal equation is slight; the inclusion of certain "far-fetched" or even frankly pathological reactions may be discounted by bearing in mind that the general value of this group is not equal to that of the group of common reactions; and the number of strictly normal reactions which are not included is after all small. Our experience has shown us that the appendix constitutes an important aid in the analysis of individual reactions.

**Pathological Reactions. Derivatives of Stimulus Words.**—We place here any reaction which is a grammatical variant or derivative of a stimulus word. The tendency to give such reactions seems to be dependent upon a suspension or inhibition of the normal process by which the stimulus word excites the production of a new concept, for we have here not a production of a new concept but a mere change in the form of the stimulus word. As examples of such reactions may be mentioned: *eating*—*eatables*, *short*—*shortness*, *sweet*—*sweetened*, *quiet*—*quietness*.

**Partial Dissociation.**—We have employed the term dissociation to indicate a rupture of that bond—whatever be its nature—

which may be supposed to exist normally between stimulus and reaction and which causes normal persons to respond in the majority of instances by common reactions. And we speak of partial dissociation where there is still an obvious, though weak and superficial, connection. Under this heading we can differentiate four types:

**Non-specific Reactions** have already been defined; we distinguish those in this class from those in the class of common reactions by means of the frequency tables.

**Sound Reactions.**—This type requires no explanation; the main difficulty is to decide what degree of sound similarity between stimulus and reaction should be deemed sufficient for placing a reaction under this heading. The total number of different sounds used in language articulation is, of course, small, so that any two words are liable to present considerable chance similarity. Some time ago we estimated the average degree of sound similarity between stimulus words and reaction words in a series of one hundred test records obtained from normal persons; we found that on the average 14.53 per cent of the sounds of the stimulus words were reproduced, in the same order, in the reaction word. Our experience finally led us to adopt the following general rule: A reaction is to be placed under this heading when fifty per cent of the sounds of the shorter word of the pair are identical with sounds of the longer word and are ranged in the same order.

Among sound reactions we occasionally find **neologisms**; for these a separate heading is provided. Possibly their occurrence may be taken as an indication of an exaggerated tendency to respond by sound reactions.

**Word Complements.**—Here we include any reaction which, added to the stimulus word, forms a word, a proper name, or a compound word in common use.

**Particles of Speech.**—Under this heading we include articles, numerals, pronouns, auxiliary verbs, adverbs of time, place and degree, conjunctions, prepositions, and interjections.

**Complete Dissociation.**—Here are included reactions which appear to be entirely unrelated to the corresponding stimulus words; in the case of such reactions the stimulus words seem to act, as Aschaffenburg has pointed out, merely as signals for discharge. This subdivision contains several types of reactions which seem to be dependent upon the phenomenon of perseveration; it contains also the rather important type of neologisms.

The phenomenon of **perseveration** occurs in cases in which one may observe an abnormal immobility of attention. To react normally to a series of stimulus words requires on the part of the subject, in the first place, a certain alertness in order that he may grasp quickly and clearly the meaning of each word, and, in the second place, a prompt shifting of the mind from one reaction to the next. When such mental mobility is lacking the subject is liable to react not by a response adjusted to the stimulus word, but either by repeating a previous stimulus or reaction, or by giving a word associated to the preceding stimulus or reaction.

The names of the different types of reactions included under the heading of perseveration are sufficiently descriptive; we shall here refer only to those which require further definition.

**Association to Preceding Stimulus.**—Here is placed any reaction that is shown by the frequency tables to be related to the stimulus preceding the one in question. Seeming or even obvious relationship, if not established by reference to the frequency tables, is disregarded. In the tables, however, the combination may not exist in direct order but only in reverse order, in which case the reaction is included here. The following examples may serve as illustrations:

*thief—night*

*lion—pocket-book*

*Lion—pocket-book* is not found in the frequency tables, and is, therefore, an individual reaction; *thief—pocket-book*, however, is found there; *pocket-book* is, therefore, classed in this case as an association to preceding stimulus.

*table—fork*

*dark—mutton*

*Dark—mutton* is not found in the frequency tables; *table—mutton* is also not found there in the direct order, but is found in the reverse order, viz.: *mutton—table*; *mutton* is, therefore, classed in this case as an association to preceding stimulus.

**Association to Preceding Reaction.**—If either the reaction in question or the preceding reaction happens to be one of the stimulus words in our list, and a relationship between the two be found to exist by reference to the frequency tables—whether in direct or in reverse order—the reaction in question is classed as

an association to preceding reaction. This is illustrated by the following examples:

*eating—table*  
*mountain—floor*

*Mountain—floor* is an individual reaction; *table—floor* is found in the frequency tables; *floor* is, therefore, classed as an association to preceding reaction.

*beautiful—flowers*  
*window—red*

*Window—red* is an individual reaction; *red—flowers* is found in the frequency tables; therefore, *red* is classed as an association to preceding reaction.

In cases in which neither the reaction in question nor the preceding reaction happens to be one of our stimulus words, but a relationship between them may be judged to exist without considerable doubt, the reaction in question is also classed here. Example:

*priest—father*  
*ocean—mother*

*Ocean—mother* is an individual reaction; neither the word *father* nor the word *mother* is among our stimulus words; but the association between the words *father* and *mother* may be judged to exist without considerable doubt; therefore, in this case *mother* is classed as an association to preceding reaction.

In such cases as this personal equation must necessarily come into play; comparative uniformity of judgment may, however, be attained by systematically excluding any reaction the relationship of which to the preceding reaction is subject to any considerable doubt and by placing any such reaction in the unclassified group.

**Repetition of Previous Stimulus.**—Here we place any reaction which is a repetition of any previous stimulus from amongst the ten next preceding, at the same time placing **repetition of preceding stimulus** under a separate heading.

**Neologisms.**—Here we place the newly coined words, so commonly given by the insane, excepting such as possess a sound relationship to the stimulus word, for which, as already stated, a special place in the classification has been provided.

Neologisms might be divided into three types, as follows: (1) those which arise from ignorance of language (*comfort—uncomfort, short—diminiature*); (2) distortions of actual words, apparently of pathological origin and not due to ignorance (*hungry—foodation, thief—dissteal*); and (3) those which seem to be without any meaning whatever (*scack, gehimper, hanrow, dicut*). It is, however, impossible to draw clear-cut distinctions between these types, and for this reason we have made no provision in our classification for such division.

**Unclassified Reactions.**—This group is important, in the first place, because it is numerically a large one, and in the second place, because it contains certain fairly definite types of reactions which are placed here for the sole reason that we have not been able to find strictly objective criteria for their differentiation from other types.

It has already been stated that the frequency tables, even together with the appendix, fail to exhaust all normal possibilities of association, so that a certain small number of perfectly normal reactions must fall into the unclassified group. We submit the following examples:

*music—listen*  
*smooth—suave*  
*sour—curdled*  
*earth—mound*

Another type of reactions found in the unclassified group, though also normal, yet not obviously so until explained by the subject, is represented by those which originate from purely personal experiences, such as the following, given by normal subjects:

*blossom—T . . . .*  
*hammer—J . . . .*

The first of these reactions is explained by the subject's acquaintance with a young lady, Miss T . . . ., who has been nicknamed "Blossom," and the second is explained by the subject's having among her pupils at school a boy by the name of J . . . . Hammer.

It would be difficult to estimate the proportion of such reactions in the unclassified group, but we have gained the general

impression that it is small. An attempt to place them in a separate group could be made only with the aid of explanations from the subjects; such aid in the case of insane subjects is generally unreliable. Moreover, to class these reactions as strictly normal would perhaps be going too far, since their general value is obviously inferior to that of the common reactions; and in any case in which they are given in unusually large numbers they must be regarded as manifestation of a tendency to depart from the normal to the extent to which they displace common reactions.

The next type of reactions met with in the unclassified group is characterized by a peculiarly superficial, or non-essential, or purely *circumstantial* relationship to the stimulus. Such reactions, though occasionally given by normal subjects, are more often given by insane ones, and seem to be somewhat characteristic of states of mental deterioration which are clinically rather loosely described as puerilism. We offer the following examples, given by normal subjects:

*music—town*  
*sickness—summer*  
*child—unknown*  
*house—enter*

Still another type of reactions to be considered in this connection consists of words which are in no way related to the corresponding stimulus words, but which arise from *distraction* of the subject by surrounding objects, sounds, and the like. In some cases the experimenter may be able to judge from the direction of the subject's gaze, from a listening attitude, and so on, that certain reactions are due to distraction. In other cases, particularly in cases of normal subjects, the fact that certain reactions are due to distraction may be determined by questioning the subject on this point immediately after making the test. In work with insane subjects, as we have several times had occasion to point out, such aid is generally not available.

The group of unclassified reactions includes also one more type of reactions which are of great importance both numerically and otherwise. These are the *incoherent reactions*, that is to say, reactions which are determined neither by the stimulus words, nor by the agency of perseveration, nor by distraction.

Although the occurrence of incoherent reactions is hardly subject to doubt, yet in no instance is it possible to establish with certainty that a given reaction is of this type, for in no instance can a remote, or an imagined, or a merely symbolic relationship between stimulus and reaction be positively excluded. Some, indeed, would assert that some such relationship must necessarily exist in every instance, at least in the domain of the subconscious. This circumstance necessitates the placing of this type of reactions in the unclassified group.

In practice it may be found advisable in some cases to analyze the unclassified reactions with a view to ascertaining to what extent each of the various types is represented among them. But one here treads on slippery ground, and one must be continually warned against the danger of erroneous conclusions.

#### § 5. ORDER OF PREFERENCE.

After having developed the classification here proposed we found that there was still considerable room for difference of opinion in the placing of many reactions, owing to the circumstance that in many cases a reaction presents features which render it assignable under any one of two or more headings. To leave the matter of preference in grouping to be decided in each case according to the best judgment of the experimenter would mean introducing again the play of personal equation, and would thus court failure of all our efforts to accomplish a standardization of the association test. Therefore, the necessity of establishing a proper order of preference for guidance in the application of the classification became to us quite apparent.

In the arrangement of the order of preference we were guided mainly by two principles, namely: (1) as between two groups of unequal definition, the one which is more clearly defined and which, therefore, leaves less play for personal equation is to be preferred; (2) as between two groups of equal definition, the one which possesses the greater pathological significance is to be preferred. In accordance with these principles we have adopted the order of preference shown in Table III., placing every reaction under the highest heading on the list under which it may be properly classed.

TABLE III.

1. Non-specific (common).
2. Doubtful reactions.
- INDIVIDUAL REACTIONS.
3. Sound reactions (neologisms).
4. Neologisms without sound relation.
5. Repetition of preceding reaction.
6. Reaction repeated five times.
7. Repetition of preceding stimulus.
8. Derivatives.
9. Non-specific reactions.
10. Sound reactions (words).
11. Word complements.
12. Particles of speech.
13. Association to preceding stimulus.
14. Association to preceding reaction (by frequency tables).
15. Repetition of previous reaction.
16. Repetition of previous stimulus.
17. Normal (by appendix).
18. Association to preceding reaction (without frequency tables).
19. Unclassified.

## § 6. ERRORS INVOLVED IN THE USE OF ARBITRARY OBJECTIVE STANDARDS.

It may readily be seen that such definiteness and uniformity as this classification possesses results from the introduction of more or less arbitrary criteria for the differentiation of the various types of reactions. The question might arise, To what extent do the distinctions thus made correspond to reality? To consider, for instance, our rule for the placing of sound reactions (50 per cent of the sounds of the shorter word to be present, in the same order, in the other word) : when a given reaction (*man—minstrel*) is in accordance with the rule assigned under the heading of sound reactions, can it be assumed that sound similarity and not some other relationship is the determining factor of the association in question? Or when in a given instance (*cabbage—cobweb*) the sound similarity falls somewhat short of the standard required by the rule, can it be assumed that sound similarity is not, after all, the determining factor?

Similar questions may, of course, arise in connection with other subdivisions.

It must, indeed, be conceded that objective methods can reveal but indirectly and with uncertainty the inner mechanism which produces any association and that in any given instance it would be impossible to establish the correctness of grouping in accordance with such methods. However, to decide that question for any given reaction is really not necessary in practice, since an error



made through wrongly placing one, two, or three reactions under any heading is of no significance; the types acquire importance only when represented by large numbers in a record under consideration; and when many reactions fall under a single heading the likelihood of error, as affecting the record as a whole, is by that fact alone greatly reduced.

The whole question might more profitably be approached from another point of view: To what extent are the distinctions of this classification useful? An answer to this question can be found only in the results.

### § 7. ANALYSIS OF PATHOLOGICAL MATERIAL.

We present in Table IV. the results of a statistical examination of the records obtained from certain groups of normal subjects and from some groups of insane subjects.

The normal groups have been studied for the purpose of determining the frequency and manner of occurrence among normal subjects of the various types of abnormal reactions. It seemed best for this purpose to consider separately the records of those subjects who gave an unusually large number of individual reactions. Fifty-three records containing fifteen or more individual reactions were found after a fairly diligent search among our normal test records. In the other groups of subjects—persons of common school education, persons of collegiate education, and children—we included no records containing more than ten individual reactions.

The more striking departures from average normal figures are indicated in the table by the use of heavy type.

This table reveals some special associational tendencies as occurring in connection with the psychoses studied. A better insight into the nature of these tendencies can be gained by a special analysis of the test records of each clinical group.

#### DEMENTIA PRÆCOX.

In this psychosis we find the average number of individual reactions far exceeding not only that of the normal but also that of any other psychosis which we have studied. To a corresponding extent we find the average number of the highest type of normal reactions—the common specific reactions—reduced.

While almost every type of individual reactions shows here an

TABLE IV.

	86 normal subjects, common school education; records containing not over 10 individual reactions.			66 normal subjects, collegiate education; records containing not over 10 individual reactions.			46 normal subjects, school children; records containing not over 10 individual reactions.			63 normal subjects; records containing 16 individual reactions.			108 cases of dementia praecox.			88 cases of paranoic conditions.			24 cases of epilepsy.			82 cases of general paresis.			82 cases of manic-depressive insanity.					
	Median per cent of all reactions.	Average per cent of individual reactions.	Median per cent of all reactions.	Average per cent of individual reactions.	Median per cent of all reactions.	Average per cent of individual reactions.	Median per cent of all reactions.	Average per cent of individual reactions.	Median per cent of all reactions.	Average per cent of individual reactions.	Median per cent of all reactions.	Average per cent of individual reactions.	Median per cent of all reactions.	Average per cent of individual reactions.	Median per cent of all reactions.	Average per cent of individual reactions.	Median per cent of all reactions.	Average per cent of individual reactions.	Median per cent of all reactions.	Average per cent of individual reactions.	Median per cent of all reactions.	Average per cent of individual reactions.	Median per cent of all reactions.	Average per cent of individual reactions.	Median per cent of all reactions.	Average per cent of individual reactions.				
<b>Common reactions:</b>																														
Specific reactions.....	90	39.8	4	4.1	1	0.6	91	39.4	72	71.4	3	4.8	63	63.9	3	4.2	82	71.8	71	63.7	78	71.8	44	6.3	80	71.2	80	71.2		
Non-specific reactions.....	1	1.1	1	0.6	0	0.7	0	0.7	2	2.3	2	2.3	2	2.5	2	2.5	2	3.0	3	3.0	2	2.2	2	2.2	2	3.0	2	3.0		
<b>Doubtful reactions:</b>																														
<b>Individual reactions:</b>																														
Normal reactions.....	2	1.8	41.8	1	1.8	35.3	1	1.6	42.0	7	7.3	33.4	4	4.8	13.9	3	8.5	16.3	84	8.4	12.6	3	3.6	17.4	44	5.3	34.8	44	5.3	
Derivatives of stimulus words.....	0	0.01	0.3	0	0.02	0.3	0	0	0	0	0	0.04	0.2	0	0.16	0.46	0	0.10	0.40	0	0.04	0.15	0	0.09	0.45	0	0.09	0.45	0	0.09
Non-specific reactions.....	0	0.1	2.3	0	0.1	1.2	0	0.2	5.3	0	0	2.0	0	0.6	1.7	0	0.4	1.7	0	0.5	1.8	1	0.5	2.4	0	0.8	1.6	0	0.8	
Sound reactions (words).....	0	0.08	1.9	0	0.06	0.9	0	0	0	0	0.11	0.5	1	1.3	4.7	1	1.6	7.4	1	0.6	2.0	0	0.23	1.0	1	1.6	1.1	1	1.6	
Sound reactions (neologisms).....	0	0.01	0.3	0	0.02	0.3	0	0	0	0	0	0	0	0.07	0.2	0	1.0	4.7	0	0.1	0.6	0	0.06	0.3	0	0.03	0.1	0	0.03	
Word complements.....	0	0.01	0.3	0	0.03	0.5	0	0	0	0	0.03	0.3	0	0.06	0.2	0	0.2	0.1	0	0.0	0.0	0	0.06	0.3	0	0.03	0.1	0	0.03	
Particles of speech.....	0	0.09	2.2	0	0.06	1.2	0	0.06	1.6	0	0.03	0.3	0	1.0	3.1	0	0.2	0.1	0	0.0	0.0	0	0.06	0.3	0	0.03	0.1	0	0.03	
Association to preceding stimulus.....	0	0.06	1.4	0	0.06	1.2	0	0.04	1.1	0	0.04	0.2	0	0.23	0.7	0	0.40	2.7	1	1.0	5.8	1	0.39	1.7	0	0.39	0.1	0	0.39	
Association to preceding reaction.....	0	0	0	0	0.03	0.6	0	0	0	0	0	0	0	0.06	0.2	0	0.10	0.4	0	0.08	0.3	0	0	0	0	0	0	0	0	
Repetition of preceding stimulus.....	0	0	0	0	0.01	0.3	0	0	0	0	0.02	0.1	0	0.12	0.3	0	0.10	0.4	0	0.08	0.1	0	0.23	1.4	0	0.22	1.0	0	0.22	
Repetition of previous stimulus.....	0	0	0	0	0.03	0.6	0	0.02	0.5	0	0.03	0.3	0	0.19	0.5	0	0.12	0.6	0	0.08	0.1	0	0.23	1.4	0	0.22	1.0	0	0.22	
Repetition of preceding reaction.....	0	0.21	4.7	0	0.31	5.8	0	0.23	5.8	0	0.23	4.2	1	1.1	3.4	1	1.61	7.1	3	3.4	13.7	0	2.33	10.9	0	2.33	10.9	0	2.33	
Reaction repeated five times.....	0	0	0	0	0.05	0.9	0	0.08	2.1	0	0.26	1.5	0	1.23	7.9	0	0.12	0.6	0	0.08	0.1	0	0.23	1.4	0	0.22	1.0	0	0.22	
Neologisms without sound relation.....	0	0	0	0	0	0	0	0.02	0.1	0	0	0	0	1.02	4.4	0	0.12	0.6	0	0.08	0.1	0	0.23	1.4	0	0.22	1.0	0	0.22	
Unclassified.....	2	1.8	43.4	2	2.5	50.3	1	1.5	39.4	11	11.1	51.2	11	16.2	47.2	6	9.8	43.6	6	7.7	28.6	5	6.9	28.4	4	8.6	40.1	4	8.6	
Total individual reactions.....	4	4.2	.....	5	5.1	.....	4	3.9	.....	21	21.8	.....	204	34.3	.....	10	21.8	.....	19	27.2	.....	144	20.8	.....	114	21.6	.....	114	21.6	

TYPES OF REACTIONS.

increase over the normal averages, the most striking increases are shown by the table to be in the groups of unclassified reactions, neologisms, sound reactions, and some types of perseveration. A further examination of the individual test records shows that there is no uniformity of associational tendencies in this clinical group, but that several tendencies are more or less frequently met with either alone or in various combinations. Yet some of these tendencies, when appearing at all prominently, are so highly characteristic of dementia præcox as to be almost pathognomonic. Among these may be mentioned: (1) the tendency to give *neologisms*, particularly those of the senseless type; (2) the tendency to give unclassified reactions largely of the *incoherent* type; and (3) the tendency toward *stereotypy* manifested chiefly by abnormally frequent repetitions of the same reaction. Fairly characteristic also is the occasional tendency to give sound reactions. Again, occasionally one encounters pronounced *perseveration*, and at least two of our subjects gave a good many unclassified reactions obviously due to *distraction*.

It must be noted that not infrequently cases of dementia præcox give test records that cannot be distinguished from normal. It seems that the pathological associational tendencies constitute merely a special group of symptoms, some of which may be expected to be manifest in cases which have reached a state of advanced mental deterioration, but may not necessarily be present in the early stages of the disease. On the other hand there is evidence to show that these tendencies may in some cases appear among the earliest manifestations. This matter will be referred to again.

Thus the test records of dementia præcox depart from the normal not sharply but by a gradual shading off. We find similar gradual transitions between dementia præcox and other psychoses. For this work we selected cases in which the diagnoses were established with reasonable certainty. Whether or not in cases of doubtful clinical classification this association test may be of aid in determining the diagnosis, is a question that must for the present remain open.

We submit herewith copies of test records. The numbers which appear after the reactions indicate in each case the reaction type, in accordance with Table III. (p. 27); common specific reactions are not numbered.

CASE No. 4752.—H. J. Neologisms; some unclassified reactions, mostly incoherent.

Table-meadow .....	19	Needle-himper .....	4	Ocean-himmer .....	4
Dark-black .....		Red-gumper .....	4	Head-himper .....	4
Music-sweet .....		Sleep-moop .....	4	Stove-gamper .....	4
Sickness-dead .....	2	Anger-rumble .....	19	Long-humble .....	19
Man-manion .....	3	Carpet-slamper .....	4	Religion-gumper .....	4
Deep-near .....	19	Girl-hinker .....	4	Whiskey-numper .....	4
Soft-sooner .....	19	High-humper .....	4	Child-himper .....	4
Eating-formble .....	4	Working-gumpip .....	4	Bitter-gehimper .....	3
Mountain-gair .....	4	Sour-imper .....	4	Hammer-gueep .....	4
House-temble .....	4	Earth-gumper .....	4	Thirsty-humper .....	4
Black-benched .....	4	Trouble-humper .....	4	City-deeper .....	19
Mutton-ranched .....	4	Soldier-gupiper .....	4	Square-hummer .....	4
Comfort-bumble .....	4	Cabbage-phar .....	4	Butter-bimper .....	3
Hand-semble .....	4	Hard-her .....	12	Doctor-harner .....	4
Short-simber .....	4	Eagle-damnornott .....	4	Loud-harner .....	4
Fruit-narrow .....	13	Stomach-dumper .....	4	Thief-himper .....	4
Butterfly-Ben .....	19	Stem-gumper .....	4	Lion-humor .....	19
Smooth-gum .....	19	Lamp-huntznit .....	4	Joy-gumper .....	4
Command-bramble .....	19	Dream-hungnot .....	4	Bed-hoomer .....	4
Chair-low .....		Yellow-bampir .....	4	Heavy-doomer .....	4
Sweet-temper .....	19	Bread-gumper .....	4	Tobacco-per .....	12
Whistle-bensid .....	4	Justice-sidnerber .....	4	Baby-hoomer .....	4
Woman-hummery .....	4	Boy-eeper .....	4	Moon-gumper .....	4
Cold-gumst .....	4	Light-huntznit .....	4	Scissors-gumper .....	4
Slow-bemper .....	4	Health-geeper .....	4	Quiet-humper .....	4
Wish-tip .....	19	Bible-himpier .....	4	Green-gueet .....	3
River-gumper .....	4	Memory-hummer .....	19	Salt-rummer .....	4
White-Andes .....	19	Sheep-hunner .....	4	Street-numper .....	4
Beautiful-gimper .....	4	Bath-bemnitper .....	4	King-himper .....	4
Window-hummer .....	4	Cottage-gumper .....	4	Cheese-guinter .....	4
Rough-geep .....	4	Swift-dumper .....	4	Blossom-yunger .....	4
Citizen-humper .....	4	Blue-dipper .....	19	Afraid-yunger .....	4
Foot-zuper .....	4	Hungry-hummer .....	3		
Spider-gumper .....	4	Priest-rump .....	19		

CASE No. 5183.—G. D. Neologisms; numerous unclassified reactions, mostly incoherent; some sound neologisms.

Table-muss .....	19	Needle-cast .....	15	Ocean-men .....	19
Dark-gone .....	19	Red-Roman .....	19	Head-will .....	19
Music-caffa .....	4	Sleep-scack .....	4	Stove-somen .....	4
Sickness-monk .....	19	Anger-goits .....	4	Long-lass .....	19
Man-boy .....	4	Carpet-noise .....	13	Religion-cor .....	4
Deep-lesson .....	19	Girl-call .....	18	Whiskey-hanrow .....	4
Soft-ness .....	4	High-hort .....	4	Child-vand .....	4
Eating-pie .....		Working-kafir .....	19	Bitter-bike .....	15
Mountain-Gus .....	19	Sour-romerscotters .....	4	Hammer-hemmel .....	3
House-muss .....	15	Earth-bell .....	19	Thirsty-cass .....	4
Black-court .....	19	Trouble-tramine .....	4	City-cor .....	4
Mutton-beef .....		Soldier-gas .....	19	Square-malice .....	19
Comfort-ness .....	4	Cabbage-cor .....	4	Butter-back .....	19
Hand-koy .....	4	Hard-kalbas .....	4	Doctor-ness .....	4
Short-ness .....	4	Eagle-bell .....	15	Loud-arman .....	4
Fruit-dalb .....	4	Stomach-chenic .....	4	Thief-cast .....	15
Butterfly-flack .....	4	Stem-trackstar .....	3	Lion-loss .....	15
Smooth-mess .....	19	Lamp-loss .....	19	Joy-kafir .....	15
Command-cork .....	19	Dream-melso .....	4	Bed-banrow .....	4
Chair-ness .....	4	Yellow-ormondo .....	4	Heavy-cast .....	15
Sweet-Bess .....	17	Bread-life .....		Tobacco-colrow .....	4
Whistle-toy .....		Justice-quartz .....	19	Baby-boil .....	19
Woman-girl .....		Boy-nellan .....	4	Moon-padoc .....	4
Cold-cork .....	15	Light-cor .....	4	Scissors-kantow .....	4
Slow-mass .....	19	Health-hallenbee .....	4	Quiet-kilroe .....	4
Wish-vell .....	4	Bible-book .....		Green-graft .....	10
River-mouth .....	4	Memory-bike .....	19	Salt-semen .....	19
White-cast .....	17	Sheep-armen .....	4	Street-pess .....	4
Beautiful-ness .....	4	Bath-cor .....	4	King-guess .....	19
Window-crow .....	19	Cottage-callan .....	4	Cheese-tiffer .....	4
Rough-ratter .....	19	Swift-swar .....	3	Blossom-cad .....	19
Citizen-zide .....	4	Blue-blacksen .....	4	Afraid-mellows .....	19
Foot-mallooy .....	4	Hungry-scatterbuck .....	4		
Spider-straw .....	19	Priest-canon .....	17		

CASE No. 1500.—D. V. Considerable number of neologisms; stereotypy manifested partly in a tendency toward frequent repetition of certain reactions but mainly in a persistent tendency to make use of the grammatical form of present participle, giving rise to numerous doubtful reactions.

Table—stand .....	Needle—stinging .....	2	Ocean—moving .....	2
Dark—lonesome .....	Red—coloring .....		Head—setting .....	15
Music—playing .....	Sleep—dreaming .....		Stove—warm .....	
Sickness—disease .....	Anger—widing .....	4	Long—slowly .....	2
Man—hiding .....	Carpet—cleaning .....		Religion—everything .....	19
Deep—unreckless .....	Girl—pretty .....	1	Whiskey—burning .....	
Soft—beginning .....	High—degrace .....	4	Child—born .....	
Eating—plenty .....	Working—nobody .....	19	Bitter—taking .....	19
Mountain—high .....	Sour—holling .....	4	Hammer—hitting .....	2
House—standing .....	Earth—disgrace .....	19	Thirsty—drinking .....	
Black—grivelling .....	Trouble—plenty .....		City—welldell .....	4
Mutton—plenty .....	Soldier—shooting .....	13	Square—taking .....	15
Comfort—laying .....	Cabbage—welldell .....	4	Butter—soft .....	
Hand—disease .....	Hard—caming .....	4	Doctor—instrument .....	19
Short—writing .....	Eagle—setting .....	19	Loud—speaking .....	2
Fruit—coming .....	Stomach—degrivel .....	4	Thief—gitting .....	4
Butterfly—flying .....	Stem—biting .....	19	Lion—scared .....	17
Smooth—glimming .....	Lamp—burning .....		Joy—playing .....	2
Command—master .....	Dream—walking .....	19	Bed—laying .....	2
Chair—standing .....	Yellow—blowing .....	15	Heavy—raisen .....	4
Sweet—sugar .....	Bread—making .....		Tobacco—eating .....	19
Whistle—blowing .....	Justice—unpossible .....	4	Baby—born .....	
Woman—loving .....	Boy—growing .....	2	Moon—shining .....	
Cold—cellar .....	Light—stand .....	6	Scissors—cutting .....	
Slow—coming .....	Health—raising .....	19	Quiet—hitting .....	15
Wish—dreaming .....	Bible—teaching .....	2	Green—landed .....	19
River—divided .....	Memory—together .....	12	Salt—throwing .....	19
White—wall .....	Sheep—weeding .....	19	Street—walking .....	
Beautiful—pleasant .....	Bath—held .....	19	King—tension .....	19
Window—breaking .....	Cottage—standing .....	2	Cheese—eating .....	
Rough—tumble .....	Swift—incuriosable .....	4	Blossom—growing .....	2
Citizen—gentleman .....	Blue—smooven .....	4	Afraid—nobody .....	
Foot—sweating .....	Hungry—uncareless .....	4		
Spider—biting .....	Priest—going .....	19		

#### CASE No. 5138.—C. J. Unclassified reactions, mostly incoherent.

Table—tablecloth .....	Needle—lifter .....	19	Ocean—waves .....	
Dark—forward .....	Red—dove .....	19	Head—black .....	
Music—instrument .....	Sleep—coat .....	13	Stove—lid .....	
Sickness—fluid .....	Anger—smile .....	19	Long—short .....	
Man—hemale .....	Carpet—gas .....	19	Religion—Christian .....	
Deep—steep .....	Girl—kite .....	19	Whiskey—malt .....	
Soft—hard .....	High—cow .....	19	Child—baby .....	
Eating—mountain .....	Working—candy .....	19	Bitter—sweet .....	
Mountain—raven .....	Sour—peach .....	17	Hammer—nail .....	
House—shutter .....	Earth—balloon .....	19	Thirsty—water .....	
Black—blue .....	Trouble—grass .....	13	City—steeple .....	19
Mutton—beef .....	Soldier—brass .....	17	Square—marble .....	19
Comfort—discomfort .....	Cabbage—flea .....	19	Butter—bread .....	
Hand—wrist .....	Hard—cat .....	19	Doctor—aster .....	19
Short—tall .....	Eagle—negro .....	10	Loud—fog .....	19
Fruit—vegetable .....	Stomach—winter .....	19	Thief—Mary .....	19
Butterfly—bee .....	Stem—leaf .....		Lion—tiger .....	
Smooth—rough .....	Lamp—cloth .....	19	Joy—glad .....	
Command—orders .....	Dream—slumber .....		Bed—sheet .....	
Chair—sofa .....	Yellow—pink .....		Heavy—light .....	
Sweet—sour .....	Bread—glass .....	19	Tobacco—smoke .....	
Whistle—fife .....	Justice—coal .....	19	Baby—powder .....	
Woman—girl .....	Boy—maid .....		Moon—sky .....	
Cold—warm .....	Light—shine .....		Scissors—handle .....	
Slow—faster .....	Health—pale .....	17	Quiet—sing .....	19
Wish—not .....	Bible—leaf .....		Green—pink .....	
River—neck .....	Memory—grief .....	19	Salt—chimney .....	19
White—blue .....	Sheep—giraffe .....	19	Street—block .....	
Beautiful—homely .....	Bath—soap .....		King—crown .....	
Window—sill .....	Cottage—scene .....	19	Cheese—tea .....	17
Rough—paint .....	Swift—slow .....		Blossom—leaves .....	
Citizen—pedestrian .....	Blue—piece .....	19	Afraid—frighten .....	
Foot—rose .....	Hungry—food .....			
Spider—towel .....	Priest—minister .....			

## CASE No. 17979.—R. T. Unclassified reactions, mostly incoherent.

Table—full .....	19	Needle—point .....		Ocean—supply .....	19
Dark—coldness .....	2	Red—temperature .....	15	Head—manager .....	17
Music—aeronaut .....	19	Sleep—rest .....		Stove—shake .....	19
Sickness—better .....		Anger—temper .....		Long—journey .....	
Man—extension .....	19	Carpet—court .....	10	Religion—thought .....	1
Deep—electrician .....	19	Girl—birth .....	10	Whiskey—lusk .....	4
Soft—harden .....	2	High—dirt .....	19	Child—wish .....	15
Eating—stomach .....		Working—ease .....		Bitter—ennalseladiga .....	4
Mountain—Lord .....	19	Sour—balt .....	4	Hammer—efface .....	19
House—roof .....		Earth—veraxion .....	19	Thirsty—want .....	
Black—darkness .....		Trouble—business .....		City—comforts .....	15
Mutton—working .....	19	Soldier—obedient .....	2	Square—crown .....	19
Comfort—ahead .....	12	Cabbage—fell .....	19	Butter—flavor .....	15
Hand—mercury .....	19	Hard—solid .....		Doctor—dram .....	19
Short—have .....	12	Eagle—government .....	19	Loud—temper .....	15
Fruit—flavor .....	19	Stomach—chest .....		Thief—caught .....	2
Butterfly—plant .....	13	Stem—wish .....	19	Lion—crown .....	15
Smooth—level .....		Lamp—brilliance .....	17	Joy—pleasure .....	1
Command—obedient .....		Dream—unso .....	4	Bed—comforts .....	
Chair—rest .....		Yellow—color .....		Heavy—thoughts .....	1
Sweet—polish .....	19	Bread—crust .....		Tobacco—changes .....	15
Whistle—note .....		Justice—truth .....		Baby—pleasure .....	1
Woman—comfort .....		Boy—obedient .....		Moon—brilliance .....	2
Cold—pleasant .....	1	Light—heart .....	2	Scissors—edge .....	
Slow—move .....		Health—feeling .....		Quiet—baptism .....	19
Wish—wealth .....		Bible—scripture .....		Green—autumn .....	19
River—shell .....	19	Memory—saying .....	19	Salt—gather .....	19
White—change .....	19	Sheep—wool .....		Street—thoroughfare .....	
Beautiful—sat .....	19	Bath—get .....	19	King—crown .....	
Window—temperature .....	19	Cottage—morrell .....	4	Cheese—flavor .....	15
Rough—shell .....	15	Swift—good .....	1	Blossom—wood .....	17
Citizen—soldier .....		Blue—look .....	19	Afraid—downhearted .....	17
Foot—travel .....		Hungry—have .....	12		
Spider—web .....		Priest—scripture .....	15		

## CASE No. 3307.—G. F. Unclassified reactions, mostly incoherent; slight tendency to respond by sound reactions.

Table—desk .....		Needle—bird .....	13	Ocean—waves .....	
Dark—blue .....		Red—green .....		Head—hat .....	
Music—stars .....	13	Sleep—opening .....	19	Stove—blackening .....	2
Sickness—trees .....	19	Anger—angry .....		Long—garden .....	19
Man—menace .....	10	Carpet—stitching .....	19	Religion—goodness .....	1
Deep—soap .....	19	Girl—madam .....	17	Whiskey—Kummell .....	17
Soft—excited .....	19	High—ceiling .....		Child—woman .....	1
Eating—spelling .....	10	Working—easy .....		Bitter—coughing .....	19
Mountain—marbles .....	19	Sour—warm .....	19	Hammer—sofa .....	19
House—train .....	19	Earth—heaven .....		Thirsty—pillow .....	18
Black—bed .....	19	Trouble—astonished .....	19	City—united .....	19
Mutton—button .....	10	Soldier—man .....	1	Square—oblong .....	
Comfort—steak .....	13	Cabbage—carrot .....		Butter—lard .....	
Hand—flexible .....	19	Hard—softness .....	2	Doctor—physician .....	
Short—umbrella .....	17	Eagle—parrot .....		Loud—easy .....	
Fruit—blanket .....	19	Stomach—mind .....	19	Thief—burglar .....	
Butterfly—grass .....		Stem—stable .....	10	Lion—tiger .....	
Smooth—sheet .....	19	Lamp—oil .....		Joy—healthy .....	2
Command—carpet .....	19	Dream—awake .....		Bed—thread .....	10
Chair—store .....	19	Yellow—darkness .....	2	Heavy—gloves .....	17
Sweet—flower .....		Bread—rough .....	19	Tobacco—cigar .....	
Whistle—linen .....	19	Justice—male .....	19	Baby—hood .....	11
Woman—water .....	19	Boy—buoy .....	10	Moon—stars .....	
Cold—coal .....		Light—standing .....	19	Scissors—knife .....	
Slow—ferry .....	17	Health—very .....	12	Quiet—recollect .....	17
Wish—sample .....	19	Bible—ashamed .....	19	Green—ring .....	19
River—shades .....	19	Memory—staring .....	19	Salt—pencil .....	19
White—blue .....		Sheep—stock .....		Street—bushes .....	19
Beautiful—suspender .....	19	Bath—sponge .....		King—Germany .....	17
Window—wood .....		Cottage—house .....		Cheese—rice .....	17
Rough—chisel .....	19	Swift—mouse .....	19	Blossom—pepper .....	19
Citizen—ruler .....		Blue—fall .....	19	Afraid—allspice .....	18
Foot—snake .....	19	Hungry—appetite .....			
Spider—fly .....		Priest—pastor .....			

## CASE No. 971.—O. M. Unclassified reactions, mostly incoherent.

Table-vote .....	19	Needle-pin .....		Ocean-sea .....	
Dark-plenty .....	19	Red-white .....		Head-cranium .....	
Music-health .....	19	Sleep-apple .....	13	Stove-soft .....	19
Sickness-fright .....	19	Anger-sour .....	19	Long-biles .....	4
Man-manager .....	10	Carpet-wool .....		Religion-bunion .....	10
Deep-slow .....	19	Girl-boy .....		Whiskey-vinegar .....	17
Soft-pepper .....	19	High-low .....		Child-edge .....	19
Eating-vanity .....	19	Working-height .....	13	Bitter-born .....	10
Mountain-slept .....	19	Sour-pitcher .....	19	Hammer-wood .....	
House-courage .....	19	Earth-clam .....	19	Thirsty-cradle .....	19
Black-funeral .....		Trouble-necessity .....	9	City-flames .....	19
Mutton-age .....	19	Soldier-marine .....		Square-eating .....	19
Comfort-slide .....	19	Cabbage-watermelon .....	17	Butter-dirt .....	19
Hand-credit .....	19	Hard-cracker .....	17	Doctor-malefactor .....	19
Short-Simpson .....	17	Eagle-bright .....	19	Loud-quinine .....	19
Fruit-physician .....	19	Stomach-back .....		Thief-joy .....	19
Butterfly-torment .....	19	Stem-stimulant .....	10	Lion-sage .....	19
Smooth-button .....	17	Lamp-hair .....	19	Joy-thorn .....	19
Command-scarf .....	19	Dream-knees .....	19	Bed-drafter .....	19
Chair-rage .....	19	Yellow-amen .....	12	Heavy-close .....	19
Sweet-cider .....	17	Bread-general .....	19	Tobacco-weed .....	
Whistle-lace .....	19	Justice-no .....	2	Baby-stop .....	19
Woman-debt .....	19	Boy-grass .....	19	Moon-starch .....	19
Cold-powderly .....	4	Light-thought .....	9	Scissors-crepe .....	17
Slow-telephone .....	19	Health-depression .....	17	Quiet-bustle .....	19
Wish-regret .....	17	Bible-judge .....	4	Green-color .....	
River-herald .....	19	Memory-stomach .....	19	Salt-throw .....	19
White-black .....		Sheep-crusade .....	19	Street-ferment .....	19
Beautiful-jolly .....	19	Bath-labor .....	19	King-jaunce .....	4
Window-pane .....		Cottage-cotton .....	10	Cheese-tepid .....	19
Rough-duty .....	19	Swift-depth .....	19	Blossom-woman .....	9
Citizen-ward .....	17	Blue-crimson .....	17	Afraid-shame .....	17
Foot-minister .....	19	Hungry-alloyed .....	19		
Spider-handsome .....	19	Priest-politicians .....	17		

## CASE No. 01655.—E. H. Unclassified reactions, mostly incoherent.

Table-cent .....	19	Needle-drops .....	15	Ocean-stop .....	15
Dark-sweet .....	19	Red-glass .....	17	Head-strap .....	19
Music-delighted .....	2	Sleep-suits .....	19	Stove-pot .....	17
Sickness-pop .....	19	Anger-suits .....	5	Long-name .....	
Man-change .....	19	Carpet-hat .....	19	Religion-day .....	13
Deep-pass .....	19	Girl-president .....	19	Whiskey-take .....	19
Soft-drop .....	19	High-pass .....	19	Child-jaw .....	17
Eating-fair .....	19	Working-knock .....	19	Bitter-licorice .....	17
Mountain-heavy .....	19	Sour-cake .....	19	Hammer-sound .....	
House-fate .....	19	Earth-home .....		Thirsty-cards .....	19
Black-right .....	19	Trouble-news .....	17	City-dice .....	13
Mutton-with .....	12	Soldier-name .....	19	Square-muff .....	19
Comfort-indeed .....	12	Cabbage-rule .....	19	Butter-stick .....	19
Hand-span .....	10	Hard-rope .....	19	Doctor-perfect .....	19
Short-stop .....		Eagle-in .....	12	Loud-walk .....	15
Fruit-dip .....	19	Stomach-potato .....	17	Thief-jail .....	
Butterfly-home .....	19	Stem-pick .....		Lion-cow .....	
Smooth-days .....	19	Lamp-berry .....	18	Joy-nail .....	19
Command-stop .....	15	Dream-book .....		Bed-new .....	19
Chair-pledge .....	19	Yellow-lettuce .....	19	Heavy-down .....	12
Sweet-right .....	15	Bread-chews .....	17	Tobacco-prize .....	19
Whistle-home .....	15	Justice-night .....	15	Baby-new .....	15
Woman-Louisa .....	17	Boy-bat .....	17	Moon-new .....	
Cold-chair .....	16	Light-rasp .....	19	Scissors-teach .....	19
Slow-aid .....	19	Health-off .....	12	Quiet-man .....	1
Wish-book .....	2	Bible-comforter .....	2	Green-water .....	17
River-shoes .....	19	Memory-candy .....	19	Salt-money .....	19
White-ouch .....	12	Sheep-eat .....		Street-right .....	15
Beautiful-not .....	12	Bath-sweet .....	19	King-girl .....	19
Window-papers .....	19	Cottage-walk .....	19	Cheese-house .....	19
Rough-lettuce .....	19	Swift-reason .....	19	Blossom-work .....	1
Citizen-money .....	17	Blue-dot .....	19	Afraid-jars .....	19
Foot-stand .....		Hungry-swift .....	16		
Spider-socks .....	19	Priest-birth .....	19		

CASE M. F. (from Hudson River State Hospital).—Unclassified reactions, mostly incoherent.

Table-heat .....	19	Needle-action .....	19	Ocean-pilot .....	17
Dark-succeed .....	19	Red-stout .....	19	Head-tin .....	19
Music-benefit .....	19	Sleep-lazy .....	17	Stove-plate .....	17
Sickness-steep .....	19	Anger-anguish .....	19	Long-trouble .....	19
Man-dicut .....	4	Carpet-knowledge .....	19	Religion-soap .....	19
Deep-rectify .....	19	Girl-first .....	10	Whiskey-starch .....	18
Soft-bed .....	19	High-hand .....	19	Child-night .....	19
Eating-dozy .....	19	Working-power .....	17	Bitter-contentment .....	19
Mountain-tulu .....	4	Sour-mud .....	19	Hammer-shortness .....	19
House-sails .....	19	Earth-sky .....	19	Thirsty-knife .....	19
Black-sunrise .....	19	Trouble-sorrow .....	19	City-mind .....	19
Mutton-tuition .....	19	Soldier-manhood .....	2	Square-truth .....	2
Comfort-blasphemous .....	19	Cabbage-righteous .....	19	Butter-biscuit .....	19
Hand-doing .....	19	Hard-beaten .....	17	Doctor-piles .....	17
Short-pest .....	19	Eagle-dog .....	19	Loud-distrust .....	19
Fruit-charm .....	19	Stomach-paste .....	19	Thief-babies .....	19
Butterfly-doctor .....	19	Stem-dust .....	10	Lion-hair .....	19
Smooth-border .....	19	Lamp-fall .....	19	Joy-eyesight .....	19
Command-right .....	19	Dream-idle .....	17	Bed-dieves .....	4
Chair-distill .....	19	Yellow-zone .....	19	Heavy-determined .....	19
Sweet-noticed .....	19	Bread-pan .....	17	Tobacco-health .....	19
Whistle-stead .....	19	Justice-tricks .....	17	Baby-wood .....	19
Woman-splice .....	19	Boy-barrel .....	19	Moon-heat .....	15
Cold-strap .....	19	Light-powers .....	15	Scissors-squeeze .....	19
Slow-chief .....	19	Health-kindness .....	19	Quiet-tears .....	19
Wish-shame .....	19	Bible-story .....	19	Green-fall .....	15
River-word .....	19	Memory-pillow .....	19	Salt-soft .....	10
White-color .....	19	Sheep-veil .....	19	Street-wait .....	19
Beautiful-better .....	19	Bath-ink .....	19	King-inches .....	19
Window-dull .....	19	Cottage-paper .....	19	Cheese-doctor .....	15
Rough-bright .....	13	Swift-arrow .....	19	Blossom-fades .....	19
Citizen-chum .....	19	Blue-cold .....	19	Afraid-hearts .....	2
Foot-relax .....	19	Hungry-dyes .....	19		
Spider-float .....	19	Priest-cloak .....	19		

CASE No. 01552.—E. J. D. Unclassified reactions, mostly incoherent.

Table-unicorn .....	19	Spider-jungle .....	19	Priest-pedestrian .....	15
Dark-African .....	17	Needle-man .....	9	Ocean-commotion .....	10
Music-love .....	4	Red-monde .....	4	Head-sugar .....	19
Sickness-slumber .....	17	Sleep-resuscitation .....	4	Stove-writer .....	19
Man-minstrel .....	10	Anger-uncared .....	19	Long-mingle .....	15
Deep-river .....	19	Carpet-foreign .....	15	Religion-tent .....	15
Soft-highwayman .....	19	Girl-celt .....	19	Whiskey-copulency .....	4
Eating-England .....	19	High-wine .....	10	Child-editor .....	19
Mountain-pleasure .....	1	Working-prayer .....	19	Bitter-backward .....	19
House-Christianity .....	19	Sour-flower .....	10	Hammer-youth .....	19
Black-directory .....	19	Earth-tariff .....	19	Thirsty-salt .....	17
Mutton-capers .....	19	Trouble-ledger .....	19	City-gentler .....	19
Comfort-mankind .....	12	Soldier-work .....	1	Square-angelus .....	19
Hand-surface .....	19	Cabbage-ancient .....	19	Butter-pastry .....	17
Short-court .....	10	Hard-provender .....	19	Doctor-veterinary .....	17
Fruit-pleasure .....	1	Eagle-school .....	19	Loud-muslin .....	19
Butterfly-dispatcher .....	19	Stomach-bowels .....	19	Thief-grocer .....	19
Smooth-navigation .....	19	Stem-tide .....	19	Lion-trip .....	19
Command-administration .....	19	Lamp-scientific .....	19	Joy-penance .....	17
Chair-time .....	19	Dream-somno .....	4	Bed-granite .....	19
Sweet-office .....	13	Yellow-pain .....	10	Heavy-note .....	19
Whistle-foreign .....	19	Bread-populous .....	19	Tobacco-vanese .....	4
Woman-usefulness .....	1	Justice-thwart .....	19	Baby-school .....	15
Cold-frigid .....	19	Boy-globe .....	19	Moon-element .....	19
Slow-vocation .....	19	Light-female .....	13	Scissors-elderly .....	19
Wish-longing .....	19	Health-linen .....	19	Quiet-trinity .....	19
River-tributary .....	17	Bible-divine .....	17	Green-commissioner .....	19
White-island .....	13	Memory-current .....	19	Salt-strength .....	19
Beautiful-unseen .....	19	Sheep-water .....	19	Street-voyager .....	19
Window-frugal .....	19	Bath-rain .....	18	King-sorrow .....	19
Rough-nautical .....	19	Cottage-journal .....	19	Cheese-holiday .....	19
Citizen-pedestrian .....	19	Swift-yacht .....	17	Blossom-parks .....	19
Foot-laugh .....	19	Blue-novel .....	19	Afraid-stamina .....	17
		Hungry-viand .....	2		



CASE No. 667.—C. L. Pronounced stereotypy. Following note on test record: "Many attempts were made to secure a reaction other than 'cat,' but usually without success; the reaction *cold—warm* was given spontaneously and with apparent interest; most reactions were given only in response to much urging, or else mechanically, without attention."

Table—cat	6	Needle—cat	6	Ocean—cat	5
Dark—rat	18	Red—button	15	Head—cat	5
Music—shoe	19	Sleep—cat	6	Stove—cat	5
Sickness—cat	6	Anger—go	15	Long—cat	5
Man—boy	6	Carpet—cat	6	Religion—cat	5
Deep—cat	6	Girl—in	12	Whiskey—cat	5
Soft—hat	19	High—little	19	Child—cat	5
Eating—cat	6	Working—cold	19	Bitter—cat	5
Mountain—hit	19	Sour—cat	6	Hammer—cat	5
House—gold	19	Earth—tag	19	Thirsty—cat	5
Black—woman	9	Trouble—cat	6	City—cat	5
Mutton—get	19	Soldier—cat	5	Square—cat	5
Comfort—cousin	19	Cabbage—cat	5	Butter—cat	5
Hand—Jesus	19	Hard—cat	5	Doctor—cat	5
Short—hat	15	Eagle—cat	5	Loud—cat	5
Fruit—hand	16	Stomach—cat	5	Thief—cat	5
Butterfly—going	19	Stem—hat	15	Lion—cat	5
Smooth—hat	15	Lamp—cat	6	Joy—cat	5
Command—boy	5	Dream—cat	5	Bed—cat	5
Chair—hat	15	Yellow—cat	5	Heavy—cat	5
Sweet—cat	6	Bread—cat	5	Tobacco—cat	5
Whistle—boy	5	Justice—cat	5	Baby—cat	5
Woman—cat	5	Boy—cat	5	Moon—cat	5
Cold—warm	5	Light—cat	5	Scissors—cat	5
Slow—button	19	Health—cat	5	Quiet—cat	5
Wish—cat	6	Bible—cat	5	Green—cat	5
River—cat	5	Memory—cat	5	Salt—cat	5
White—rat	15	Sheep—cat	5	Street—cat	5
Beautiful—good	1	Bath—cat	5	King—cat	5
Window—wheel	19	Cottage—cat	5	Cheese—cat	5
Rough—good	9	Swift—cat	5	Blossom—cat	5
Citizen—candy	19	Blue—cat	5	Afraid—cat	5
Foot—cat	6	Hungry—cat	5		
Spider—dog	19	Priest—cat	5		

#### CASE No. 6006.—E. T. S. Stereotypy.

Table—cat	5	Needle—needed	5	Ocean—fresh	19
Dark—unkindness	19	Red—beautiful	2	Head—unhealthy	15
Music—beautiful	1	Sleep—beautiful	1	Stove—warmth	5
Sickness—suffering	5	Anger—needed	6	Long—length	5
Man—good	1	Carpet—needed	5	Religion—needed	2
Deep—unkindness	15	Girl—needed	5	Whiskey—needed	5
Soft—unkindness	5	High—height	5	Child—needed	5
Eating—digesting	5	Working—needed	6	Bitter—needed	5
Mountain—low	5	Sour—needed	5	Hammer—needed	5
House—small	1	Earth—needed	5	Thirsty—water	5
Black—darkness	5	Trouble—trust	10	City—pretty	6
Mutton—good	1	Soldier—needed	6	Square—honest	5
Comfort—home	5	Cabbage—needed	5	Butter—good	1
Hand—useful	1	Hard—trouble	6	Doctor—needed	5
Short—useful	5	Eagle—beautiful	6	Loud—needed	5
Fruit—healthy	5	Stomach—trouble	5	Thief—trust	5
Butterfly—beautiful	1	Stem—shoot	10	Lion—love	10
Smooth—unkindness	15	Lamp—light	5	Joy—laughter	5
Command—great	9	Dream—pleasant	1	Bed—comfortable	5
Chair—useful	1	Yellow—pretty	1	Heavy—sleepiness	2
Sweet—healthy	15	Bread—good	1	Tobacco—needed	5
Whistle—beautiful	6	Justice—needed	6	Baby—needed	5
Woman—good	1	Boy—needed	5	Moon—needed	5
Cold—unhealthy	19	Light—pretty	6	Scissors—needed	5
Slow—good	6	Health—needed	5	Quiet—pleasure	1
Wish—always	12	Bible—needed	5	Green—me	12
River—needed	6	Memory—needed	2	Salt—needed	5
White—pretty	1	Sheep—needed	5	Street—needed	5
Beautiful—trees	5	Bath—needed	5	King—needed	5
Window—needed	6	Cottage—needed	5	Cheese—needed	5
Rough—unneeded	4	Swift—needed	5	Blossom—needed	5
Citizen—needed	6	Blue—pretty	1	Afraid—nervous	5
Foot—needed	2	Hungry—food	5		
Spider—needed	5	Priest—father	5		

CASE No. 2292.—C. M. Perseveration: numerous instances of association to preceding reaction; unclassified reactions, mostly incoherent.

Table—tree .....	19	Needle—thread .....		Ocean—turnip .....	18
Dark—night .....		Red—sew .....	18	Head—hair .....	
Music—instrument .....		Sleep—rest .....		Stove—coal .....	
Sickness—smoke .....	19	Anger—health .....	18	Long—wood .....	18
Man—woman .....	1	Carpet—carrots .....	10	Religion—lemon .....	10
Deep—water .....		Girl—eat .....	19	Whiskey—wheat .....	17
Soft—tide .....	18	High—horse .....	19	Child—rye .....	18
Eating—potato .....		Working—hay .....	15	Bitter—medicine .....	
Mountain—milk .....	13	Sour—cut .....	19	Hammer—nail .....	
House—clay .....	17	Earth—machine .....	19	Thirsty—beer .....	
Black—polish .....	17	Trouble—repair .....	18	City—cake .....	19
Mutton—goat .....		Soldier—mow .....	19	Square—pie .....	18
Comfort—cream .....	10	Cabbage—plant .....		Butter—cream .....	
Hand—hay .....	19	Hard—seed .....	18	Doctor—herb .....	19
Short—meat .....	19	Eagle—bird .....		Loud—duck .....	19
Fruit—pears .....		Stomach—egg .....	17	Thief—feathers .....	18
Butterfly—flower .....		Stem—join .....		Lion—animal .....	
Smooth—smell .....	10	Lamp—oil .....		Joy—peace .....	
Command—drink .....	19	Dream—burn .....	13	Bed—sleep .....	
Chair—wine .....	18	Yellow—gas .....	18	Heavy—rest .....	13
Sweet—honey .....		Bread—flour .....		Tobacco—chew .....	
Whistle—wind .....		Justice—drink .....	19	Baby—chair .....	19
Woman—whiskey .....	19	Boy—girl .....		Moon—sun .....	
Cold—fire .....		Light—man .....	9	Scissors—cut .....	
Slow—speed .....		Health—woman .....	1	Quiet—hair .....	18
Wish—go .....		Bible—baby .....	10	Green—grapes .....	
River—boat .....		Memory—want .....	19	Salt—bag .....	19
White—stem .....	13	Sheep—lamb .....		Street—stone .....	
Beautiful—cloak .....	17	Bath—water .....		King—cement .....	18
Window—drift .....	19	Cottage—hay .....	15	Cheese—money .....	19
Rough—storm .....		Swift—corn .....	18	Blossom—flower .....	
Citizen—citron .....	10	Blue—eat .....	18	Afraid—fast .....	19
Foot—feed .....	19	Hungry—ham .....	17		
Spider—web .....		Priest—pickle .....	18		

CASE No. 17880.—E. D. Numerous repetitions of reactions previously given; unclassified reactions, mostly incoherent; neologisms.

Table—eating .....		Needle—clothing .....	2	Ocean—help .....	6
Dark—night .....		Red—color .....		Head—knowing .....	2
Music—piano .....		Sleep—stopper .....	4	Stove—cooking .....	
Sickness—stopper .....	4	Anger—unguarded .....	17	Long—bank .....	19
Man—manly .....		Carpet—residence .....	15	Religion—church .....	
Deep—knowing .....	6	Girl—help .....	6	Whiskey—drink .....	
Soft—undoable .....	4	High—escorted .....	6	Child—help .....	6
Eating—oblong .....	19	Working—man .....	1	Bitter—error .....	10
Mountain—guide .....	19	Sour—form .....	15	Hammer—builder .....	2
House—residing .....	2	Earth—platformer .....	4	Thirsty—drink .....	
Black—dress .....		Trouble—unguarded .....	15	City—building .....	
Mutton—aiding .....	19	Soldier—sentinel .....	2	Square—unnerorer .....	4
Comfort—escorted .....	6	Cabbage—dinners .....	2	Butter—eating .....	
Hand—escorted .....	5	Hard—escorted .....	6	Doctor—destroyer .....	10
Short—unesorted .....	18	Eagle—newspaper .....	17	Loud—notoriety .....	17
Fruit—eating .....		Stomach—health .....		Thief—error .....	15
Butterfly—interfere .....	19	Stem—winding .....		Lion—lord .....	19
Smooth—knowing .....	6	Lamp—reading .....		Joy—escorted .....	6
Command—unnerorer .....	4	Dream—guarded .....	19	Bed—unesorted .....	15
Chair—seated .....		Yellow—aged .....	19	Heavy—unesorted .....	5
Sweet—durable .....	19	Bread—knowing .....	6	Tobacco—chewing .....	
Whistle—treated .....	19	Justice—bar .....	17	Baby—help .....	6
Woman—help .....	2	Boy—help .....	6	Moon—knowing .....	6
Cold—stopper .....	4	Light—advice .....	19	Scissors—tailor .....	
Slow—unknown .....	4	Health—doableness .....	4	Quiet—form .....	15
Wish—treated .....	15	Bible—church .....		Green—moneyed .....	19
River—boats .....		Memory—knowing .....	2	Salt—eating .....	
White—treasurer .....	19	Sheep—aided .....	15	Street—city .....	
Beautiful—form .....		Bath—stopper .....	4	King—adds .....	19
Window—outlook .....		Cottage—seashore .....		Cheese—eating .....	
Rough—unesorted .....	15	Swift—business .....	17	Blossom—escorted .....	6
Citizen—residing .....	2	Blue—help .....	6	Afraid—unguarded .....	15
Foot—travel .....		Hungry—unadded .....	4		
Spider—stopper .....	4	Priest—Rome .....	19		

CASE No. 6065.—A. F. Unclassified reactions, mostly incoherent; perversion: instances of association to preceding reaction and to preceding stimulus.

Table—stove	19	Needle—pins	9	Ocean—ship	19
Dark—clear	19	Red—person	9	Head—height	2
Music—calm	19	Sleep—nervous	17	Stove—people	9
Sickness—exact	19	Anger—determined	15	Long—heart	15
Man—particular	18	Carpet—floor	19	Religion—Catholic	19
Deep—personal	13	Girl—man	1	Whiskey—Brooklyn	19
Soft—frank	19	High—fruit	19	Child—New York	18
Eating—determined	19	Working—wear	10	Bitter—frost	19
Mountain—idea	19	Sour—sweet	19	Hammer—summer	19
House—street	19	Earth—early	10	Thirsty—fall	10
Black—water	19	Trouble—state	19	City—autumn	18
Mutton—ground	19	Soldier—girl	18	Square—winter	18
Comfort—country	18	Cabbage—woman	9	Butter—daily	18
Hand—fire	19	Hard—heart	19	Doctor—midnight	19
Short—straight	10	Eagle—bird	19	Loud—forenoon	18
Fruit—flowers	19	Stomach—friend	19	Thief—afternoon	18
Butterfly—horn	19	Stem—tree	19	Lion—evening	18
Smooth—farm	19	Lamp—couch	19	Joy—sorrow	19
Command—forbidden	2	Dream—desk	19	Red—obstinate	19
Chair—bed	19	Yellow—table	19	Heavy—indifferent	19
Sweet—sugar	19	Bread—chair	14	Tobacco—pipe	19
Whistle—noise	19	Justice—truth	19	Baby—mother	19
Woman—boy	19	Boy—honor	18	Moon—daughter	18
Cold—house	13	Light—tails	19	Sclerosis—son	18
Slow—store	14	Health—care	19	Quiet—sister	18
Wish—work	19	Bible—book	19	Green—brother	18
River—sound	17	Memory—remembrance	19	Salt—forward	19
White—blue	19	Sheep—free	19	Street—proper	19
Beautiful—fair	19	Bath—court	19	King—vulgar	18
Window—door	19	Cottage—pitcher	19	Cheese—personal	15
Rough—glass	18	Swift—strong	19	Blossom—tree	19
Citizen—dress	19	Blue—delicate	18	Afraid—fear	19
Foot—exact	15	Hungry—bread	19		
Spider—fly	19	Priest—church	19		

CASE No. 17188.—G. B. Sound reactions; unclassified reactions, mostly incoherent.

Table—tablet	10	Needle—shoe	19	Ocean—hat	15
Dark—dot	10	Red—book	19	Head—broom	19
Music—Lizzie	19	Sleep—sifting	19	Stove—fan	19
Sickness—Josh	17	Anger—Freeman	19	Long—time	19
Man—McMahon	10	Carpet—longing	19	Religion—Yukon	19
Deep—deaf (deaf)	10	Girl—gone	19	Whiskey—Freeman	15
Soft—sulphur	10	High—law	19	Child—Hopkins	17
Eating—itching	10	Working—back	15	Bitter—brown	19
Mountain—mouth	10	Sour—clock	19	Hammer—hands	19
House—horse	10	Earth—flower	19	Thirsty—thirty	10
Black—back	10	Trouble—sensibility	17	City—sure	19
Mutton—button	10	Soldier—sodder	10	Square—squire	10
Comfort—community	10	Cabbage—Cabot	10	Butter—Tam O'Shanter	10
Hand—hat	10	Hard—done	2	Doctor—Dorsan	10
Short—shore	10	Eagle—time	19	Loud—law	15
Fruit—Freehoff	10	Stomach—mat	19	Thief—child	19
Butterfly—busty	3	Stem—water	19	Lion—dirty	19
Smooth—small	1	Lamp—sunset	19	Joy—commerce	19
Command—Cummings	10	Dream—Connors	19	Red—strike	19
Chair—cherries	10	Yellow—flower	19	Heavy—Walden	19
Sweet—sweeten	8	Bread—water	19	Tobacco—Alice	19
Whistle—Walters	19	Justice—Gaynor	17	Baby—water	15
Woman—wayman	10	Boy—passion	19	Moon—handsome	19
Cold—laboratory	19	Light—life	19	Sclerosis—comet	19
Slow—slaw	10	Health—wealth	19	Quiet—tiger	19
Wish—wishbone	19	Bible—gone	15	Green—tree	19
River—Ontario	17	Memory—Hans	19	Salt—salary	10
White—William	19	Sheep—pasture	19	Street—prunes	19
Beautiful—bureau	10	Bath—Rogan	19	King—kind	19
Window—Weldon	10	Cottage—house	19	Cheese—handsome	15
Rough—saw	17	Swift—swim	10	Hingsom—pretty	1
Citizen—Sendow	17	Blue—Thompson	19	Afraid—Africa	10
Foot—hoof	17	Hungry—memory	18		
Spider—web	17	Priest—golden	18		

CASE No. 6238.—M. H. Sound reactions; unclassified reactions, mostly incoherent.

Table—token .....	19	Needle—nothing .....	18	Ocean—open .....	10
Dark—dye .....	17	Red—rose .....	12	Head—heart .....	10
Music—meat .....	10	Sleep—should .....	12	Stove—steel .....	10
Sickness—sorrow .....	17	Anger—after .....	10	Long—little .....	15
Man—mother .....	17	Carpet—cat .....	10	Religion—right .....	10
Deep—dark .....	10	Girl—God .....	19	Whiskey—when .....	12
Soft—silk .....	19	High—heaven .....	2	Child—chimney .....	19
Eating—elephant .....	10	Working—will .....	14	Bitter—both .....	15
Mountain—many .....	10	Sour—sweet .....	10	Hammer—heart .....	15
House—home .....	10	Earth—eaten .....	14	Thirsty—think .....	9
Black—brown .....	10	Trouble—tea .....	10	City—church .....	17
Mutton—men .....	10	Soldier—sailor .....	19	Square—swift .....	19
Comfort—cat .....	10	Cabbage—cobweb .....	12	Butter—bread .....	10
Hand—hat .....	10	Hard—haven't .....	15	Doctor—debtor .....	19
Short—shift .....	10	Eagle—eaten .....	10	Loud—loaf .....	10
Fruit—free .....	19	Stomach—sat .....	12	Thief—theatre .....	10
Butterfly—baby .....	10	Stem—should .....	19	Lion—liar .....	19
Smooth—soft .....	10	Lamp—little .....	12	Joy—jam .....	19
Command—cat .....	19	Dream—did .....	10	Bed—broom .....	19
Chair—comfort .....	19	Yellow—you .....	10	Heavy—hard .....	19
Sweet—sugar .....	19	Bread—butter .....	10	Tobacco—Tom .....	19
Whistle—wine .....	10	Justice—Jesus .....	10	Baby—brother .....	17
Woman—when .....	15	Boy—baby .....	14	Moon—men .....	2
Cold—cat .....	12	Light—love .....	19	Scissors—shift .....	10
Slow—short .....	10	Health—heaven .....	1	Quiet—quilt .....	10
Wish—when .....	10	Bible—bitch .....	19	Green—grass .....	19
River—Rhine .....	10	Memory—man .....	10	Salt—said .....	19
White—when .....	19	Sheep—shepherd .....	10	Street—Stevens .....	10
Beautiful—baby .....	19	Bath—both .....	19	King—kite .....	19
Window—wide .....	19	Cottage—cat .....	19	Cheese—cat .....	15
Rough—red .....	19	Swift—said .....	9	Blossom—bad .....	9
Citizen—company .....	19	Blue—bad .....	12	Afraid—anger .....	10
Foot—feeling .....	19	Hungry—haven't .....	19		
Spider—speck .....	10	Priest—Pope .....	19		

CASE No. 12720.—J. B. Unclassified reactions, many of which are probably due to distraction; some stereotypy. Note on test record states: "Influenced by sensory impressions, but gave good attention to each stimulus word. Had some difficulty in limiting his response to one word, but made all possible effort to comply with every request. On one occasion he was asked to react with his eyes closed, but was unable, under the unnatural conditions, to respond with one word."

Table—floor .....	19	Needle—name .....	19	Ocean—flag .....	15
Dark—light .....	19	Red—sunlight .....	18	Head—cabbage .....	17
Music—shoe .....	19	Sleep—flag .....	19	Stove—rivet .....	19
Sickness—well .....	19	Anger—slant .....	19	Long—floor .....	19
Man—boy .....	19	Carpet—rip .....	19	Religion—priest .....	19
Deep—sea .....	19	Girl—lady .....	19	Whiskey—tin .....	19
Soft—soap .....	17	High—stripe .....	17	Child—shadow .....	6
Eating—tea .....	17	Working—steam .....	19	Bitter—black .....	15
Mountain—forest .....	10	Sour—handkerchief .....	19	Hammer—buttons .....	15
House—horse .....	19	Earth—ground .....	19	Thirsty—shadow .....	6
Black—sill .....	17	Trouble—insect .....	15	City—back .....	15
Mutton—tablecloth .....	16	Soldier—army .....	15	Square—oval .....	10
Comfort—black .....	13	Cabbage—sill .....	19	Butter—table .....	6
Hand—fingers .....	17	Hard—washstand .....	15	Doctor—doorway .....	16
Short—wrist .....	13	Eagle—blue .....	19	Loud—shadow .....	19
Fruit—soup .....	13	Stomach—tap .....	15	Thief—butter .....	15
Butterfly—grape .....	13	Stem—sill .....	19	Lion—difference .....	15
Smooth—coat .....	13	Lamp—back .....	15	Joy—ink .....	15
Command—vest .....	19	Dream—shadow .....	2	Bed—butter .....	15
Chair—pillow .....	19	Yellow—blanket .....	19	Heavy—shadow .....	6
Sweet—brick .....	19	Bread—horizontal .....	19	Tobacco—wood .....	13
Whistle—knuckles .....	19	Justice—ink .....	19	Baby—wall .....	15
Woman—wall .....	19	Boy—taste .....	19	Moon—lightning .....	17
Cold—eating .....	19	Light—yellow .....	19	Scissors—book .....	15
Slow—swift .....	19	Health—book .....	17	Quiet—yellow .....	19
Wish—knob .....	19	Bible—Joseph .....	18	Green—sole .....	15
River—pad .....	19	Memory—Joe .....	19	Salt—ink .....	19
White—book .....	6	Sheep—pillow .....	19	Street—sides .....	19
Beautiful—shadow .....	19	Bath—Mott .....	19	King—stripes .....	19
Window—stockings .....	19	Cottage—globe .....	19	Cheese—butter .....	19
Rough—stand .....	19	Swift—continue .....	19	Blossom—trees .....	19
Citizen—blue .....	19	Blue—notice .....	19	Afraid—boy .....	19
Foot—brass .....	19	Hungry—Josephine .....	19		
Spider—shoelace .....	19	Priest—sixteen .....	12		

CASE No. 5374.—J. F. Perseveration; some stereotypy; sound reactions; unclassified reactions many of which are probably due to distraction. Note on test record states: "Understood what was expected, but could not be induced to give much attention to the stimulus words; sat facing a window, and showed a strong tendency to merely name objects in sight. Reaction time very short, in some cases so short that it is doubtful if he recognized the stimulus word at all."

Table—God .....19  
Dark—angel .....18  
Music—bird .....  
Sickness—woman ..... 9  
Man—male .....  
Deep—dove .....19  
Soft—dog .....19  
Eating—horse .....18  
Mountain—mule .....18  
House—dog .....  
Black—rabbit .....18  
Mutton—hen .....18  
Comfort—dog .....15  
Hand—clock .....  
Short—myself .....  
Fruit—post .....19  
Butterfly—bricks .....19  
Smooth—glass .....  
Command—sand .....10  
Chair—leaf .....19  
Sweet—wood .....19  
Whistle—earth .....19  
Woman—grass .....14  
Cold—mustard .....19  
Slow—kale .....19  
Wish—lampsquob ..... 4  
River—ten .....12  
White—rock .....17  
Beautiful—water .....17  
Window—scene .....  
Rough—been .....12  
Citizen—house .....  
Foot—stable ..... 3  
Spider—horse .....13

Needle—pin .....  
Red—cushion .....18  
Sleep—black .....18  
Anger—white .....14  
Carpet—vingency ..... 4  
Girl—noodles .....19  
High—macaroni .....18  
Working—tomatoes .....18  
Sour—asparagus .....18  
Earth—oakry ..... 4  
Trouble—peas .....19  
Soldier—beans .....18  
Cabbage—greens .....  
Hard—cow .....19  
Eagle—robin .....  
Stomach—hawk .....18  
Stem—ashes .....19  
Lamp—whale .....18  
Dream—shark .....18  
Yellow—crabs .....18  
Bread—red .....10  
Justice—jam .....19  
Boy—be ..... 2  
Light—girl .....13  
Health—filth .....10  
Bible—book .....  
Memory—bad ..... 1  
Sheep—dat ..... 4  
Bath—oval .....19  
Cottage—nurse .....19  
Swift—begin .....19  
Blue—joy .....19  
Hungry—wonder .....10  
Priest—apostle .....17

Ocean—preacher .....18  
Head—dead .....10  
Stove—store .....10  
Long—lone .....10  
Religion—world .....19  
Whiskey—whisper .....10  
Child—gule ..... 4  
Bitter—Rugby .....19  
Hammer—ball .....18  
Thirsty—sun .....19  
City—Christ .....10  
Square—Jesus .....18  
Butter—Joe .....19  
Doctor—John .....17  
Loud—Luke .....18  
Thief—St. Matthew .....18  
Lion—lie .....10  
Joy—George .....10  
Bed—Beth .....10  
Heavy—tither ..... 4  
Tobacco—iron .....13  
Baby—blade .....10  
Moon—stars .....  
Scissors—sun .....13  
Quiet—wired .....10  
Green—mean .....10  
Salt—Lou .....19  
Street—vault .....19  
King—sepulchre .....18  
Cheese—Presbyterian .....19  
Blossom—Baptist .....18  
Afraid—Methodist .....18

CASE No. 1431.—A. L. Sound reactions; particles; unclassified reactions, mostly incoherent.

Table—ammitting ..... 4  
Dark—cat .....  
Music—hello .....12  
Sickness—spelling .....19  
Man—then .....12  
Deep—heap .....10  
Soft—deep ..... 7  
Eating—people ..... 1  
Mountain—stirling .....19  
House—pat .....19  
Black—and .....12  
Mutton—it .....12  
Comfort—herself .....12  
Hand—self .....19  
Short—length .....  
Fruit—long .....13  
Butterfly—quick .....19  
Smooth—edges .....19  
Command—first .....17  
Chair—exact .....19  
Sweet—nicest ..... 2  
Whistle—thistle .....10  
Woman—pins .....19  
Cold—waving .....19  
Slow—swift .....  
Wish—choice .....17  
River—never .....10  
White—black .....  
Beautiful—much .....19  
Window—such .....19  
Rough—exact.. .....15  
Citizen—just .....  
Foot—root .....10  
Spider—diving.. .....19

Needle—Hercules .....19  
Red—green .....  
Sleep—deep .....  
Anger—grief .....  
Carpet—cheap .....19  
Girl—ink .....19  
High—I .....10  
Working—loafing .....  
Sour—hour .....10  
Earth—hurt .....10  
Trouble—bubble .....10  
Soldier—yes .....12  
Cabbage—garbage .....10  
Hard—hitting .....17  
Eagle—fitting .....19  
Stomach—pitting .....19  
Stem—condemned .....10  
Lamp—stamp .....10  
Dream—stained .....19  
Yellow—purple .....  
Bread—pimple .....19  
Justice—suit .....17  
Boy—ahoy .....12  
Light—night .....  
Health—wealth .....  
Bible—indeed .....12  
Memory—remembering ..  
Sheep—cow .....  
Bath—sponge .....  
Cottage—people ..... 1  
Swift—left .....10  
Blue—shift .....19  
Hungry—property .....19  
Priest—judge ..... 2

Ocean—river .....  
Head—sea .....18  
Stove—Venus .....19  
Long—hog .....19  
Religion—pigeon .....10  
Whiskey—gin .....  
Child—thing .....19  
Bitter—better .....10  
Hammer—happy ..... 9  
Thirsty—whiskey .....17  
City—fitting .....10  
Square—round .....  
Butter—shut .....10  
Doctor—exercise .....19  
Loud—accounts .....10  
Thief—endless .....19  
Lion—tiger .....  
Joy—fast .....19  
Bed—grass .....19  
Heavy—heaving .....10  
Tobacco—queen .....19  
Baby—water .....19  
Moon—room .....19  
Scissors—pants .....17  
Quiet—razor .....13  
Green—steel .....18  
Salt—sharp .....  
Street—fence .....19  
King—bring .....10  
Cheese—eggs .....  
Blossom—see .....19  
Afraid—awaiting .....19

CASE No. 6251.—C. D. Some stereotypy; particles; unclassified reactions, mostly incoherent.

Table—doctor .....	19	Needle—ether .....	19	Ocean—land .....	
Dark—nigger .....	17	Red—pot .....		Head—millionaire .....	19
Music—violin .....		Sleep—wake .....		Stove—twenty-five .....	12
Sickness—whores .....	19	Anger—mad .....		Long—thirty-four .....	12
Man—Mulcane .....	17	Carpet—pretty .....	1	Religion—churches .....	6
Deep—deaf .....	19	Girl—boy .....		Whiskey—plenty .....	
Soft—hearing .....	18	High—Heldel .....	10	Child—baby .....	
Eating—pillow .....	13	Working—never .....		Bitter—sorrow .....	
Mountain—sight .....	19	Sour—sweet .....		Hammer—court .....	19
House—pure .....	19	Earth—bride .....	19	Thirsty—blood .....	11
Black—nigger .....		Trouble—mischief .....		City—this .....	12
Mutton—plenty .....	6	Soldier—war .....		Square—I .....	12
Comfort—middle .....	19	Cabbage—head .....		Butter—plenty .....	6
Hand—left .....	17	Hard—never .....	6	Doctor—millionaire .....	15
Short—one .....	12	Eagle—fly .....		Loud—tell .....	17
Fruit—up .....	12	Stomach—go .....	19	Thief—rich .....	19
Butterfly—bird .....		Stem—study .....	10	Lion—west .....	19
Smooth—never .....	6	Lamp—light .....		Joy—ever .....	12
Command—commodore .....	10	Dream—behave .....	19	Bed—Constance .....	15
Chair—seat .....		Yellow—false .....	19	Heavy—fine .....	9
Sweet—sugar .....		Bread—plenty .....	6	Tobacco—back .....	10
Whistle—highest .....	19	Justice—just .....		Baby—millionaire .....	15
Woman—Constance .....	17	Boy—come .....	19	Moon—always .....	12
Cold—temperature .....		Light—Davie .....	19	Scissors—large .....	9
Slow—walk .....		Health—wealth .....		Quiet—stay .....	19
Wish—wishbone .....		Bible—Constance .....	15	Green—flowers .....	
River—love .....	19	Memory—fine .....	1	Salt—perfume .....	18
White—Dr. White .....	17	Sheep—plenty .....	6	Street—floor .....	19
Beautiful—pretty .....	1	Bath—bother .....	10	King—Haaken .....	19
Window—dove .....	19	Cottage—mansion .....		Cheese—kiss .....	19
Rough—fine .....	1	Swift—hurry .....		Blossom—flower .....	
Citizen—United States .....		Blue—flowers .....	2	Afraid—never .....	
Foot—left .....	15	Hungry—never .....			
Spider—web .....		Priest—highest .....	2		

CASE No. 17607.—P. D. Test record somewhat approaching the normal: 24 individual reactions, of which 16 are unclassified, mostly “far fetched” and not strictly incoherent. Patient is a well-marked case of dementia præcox but only moderately deteriorated; works well at the hospital.

Table—oak .....		Needle—steel .....		Ocean—Atlantic .....	
Dark—brown .....		Red—color .....		Head—stature .....	15
Music—falsetto .....	17	Sleep—slumber .....		Stove—iron .....	
Sickness—typhoid .....		Anger—aroused .....		Long—inches .....	17
Man—gender .....	19	Carpet—texture .....	2	Religion—creed .....	
Deep—feet .....	19	Girl—female .....		Whiskey—hops .....	
Soft—feeling .....		High—up .....		Child—neuter .....	19
Eating—partaking .....	19	Working—doing .....		Bitter—horehound .....	17
Mountain—hunter .....	19	Sour—lemon .....		Hammer—steel .....	
House—dwelling .....		Earth—dirt .....		Thirsty—degree .....	15
Black—color .....		Trouble—distress .....		City—population .....	
Mutton—sheep .....		Soldier—uniform .....		Square—sides .....	
Comfort—coziness .....	2	Cabbage—crop .....	19	Butter—cream .....	
Hand—anatomy .....		Hard—metal .....		Doctor—physician .....	
Short—stature .....		Eagle—bird .....		Loud—noise .....	
Fruit—apples .....		Stomach—anatomy .....		Thief—characterization .....	19
Butterfly—insect .....		Stem—pipe .....		Lion—menagerie .....	
Smooth—plain .....		Lamp—glass .....		Joy—openness .....	19
Command—order .....		Dream—atmosphere .....	19	Bed—furniture .....	
Chair—furniture .....		Yellow—color .....		Heavy—weight .....	
Sweet—sugar .....		Bread—flour .....		Tobacco—plant .....	
Whistle—steam .....		Justice—equality .....		Baby—egg .....	19
Woman—sex .....		Boy—male .....		Moon—astronomy .....	
Cold—degree .....		Light—sun .....		Scissors—blades .....	
Slow—speedless .....		Health—color .....		Quiet—noiseless .....	
Wish—expression .....		Bible—nonsense .....	19	Green—Paris .....	11
River—Amazon .....		Memory—retentiveness .....	2	Salt—crystal .....	17
White—pulp .....	17	Sheep—quadruped .....		Street—lane .....	
Beautiful—description .....		Bath—water .....		King—usurper .....	19
Window—opaque .....	19	Cottage—stories .....	19	Cheese—milk .....	
Rough—uncouth .....		Swift—speed .....		Blossom—bud .....	
Citizen—qualification .....	19	Blue—navy .....		Afraid—scared .....	
Foot—anatomy .....		Hungry—appetite .....			
Spider—bug .....		Priest—uniform .....	15		

CASE No. 5537.—J. H. Test record approaching the normal: 21 individual reactions, 8 classed as normal, 1 non-specific, 12 unclassified, mostly "far fetched" but not strictly incoherent. Well-marked dementia præcox, but of recent origin and but slight deterioration.

Table—eat .....	Needle—sew .....	Ocean—commerce .....
Dark—night .....	Red—marine .....	Head—thought .....
Music—pleasure .....	Sleep—repose .....	Stove—iron .....
Sickness—suffering .....	Anger—assault .....	Long—distance .....
Man—farmer .....	Carpet—cloth .....	Religion—belief .....
Deep—low .....	Girl—sister .....	Whiskey—alcohol .....
Soft—hard .....	High—above .....	Child—parent .....
Eating—life .....	Working—labor .....	Bitter—taste .....
Mountain—earth .....	Sour—bitter .....	Hammer—trade .....
House—dwelling .....	Earth—farm .....	Thirsty—beverage .....
Black—color .....	Trouble—fight .....	City—position .....
Mutton—food .....	Soldier—duty .....	Square—block .....
Comfort—rest .....	Cabbage—vegetable .....	Butter—yellow .....
Hand—limb .....	Hard—stone .....	Doctor—profession .....
Short—small .....	Eagle—large .....	Loud—fiddle .....
Fruit—nourishing .....	Stomach—body .....	Thief—police .....
Butterfly—flower .....	Stem—leaf .....	Lion—Africa .....
Smooth—straight .....	Lamp—light .....	Joy—sensation .....
Command—obey .....	Dream—unconsciousness .....	Bed—rest .....
Chair—furniture .....	Yellow—flag .....	Heavy—burden .....
Sweet—palate .....	Bread—hunger .....	Tobacco—store .....
Whistle—noise .....	Justice—freedom .....	Baby—care .....
Woman—marriage .....	Boy—school .....	Moon—atmosphere .....
Cold—indisposed .....	Light—electricity .....	Scissors—dressmaker .....
Slow—weary .....	Health—business .....	Quiet—lonesome .....
Wish—work .....	Bible—religion .....	Green—color .....
River—lug .....	Memory—brain .....	Salt—house .....
White—sheets .....	Sheep—pasture .....	Street—neighborhood .....
Beautiful—rare .....	Bath—clean .....	King—beast .....
Window—ventilation .....	Cottage—property .....	Cheese—merchant .....
Rough—uneven .....	Swift—current .....	Blossom—flowers .....
Citizen—public .....	Blue—uniform .....	Afraid—train .....
Foot—walk .....	Hungry—appetite .....	
Spider—web .....	Priest—church .....	

CASE No. 6190.—L. L. Test record not distinguishable from normal. Case of recent onset, with little, if any deterioration.

Table—chair .....	Needle—cotton .....	Ocean—ships .....
Dark—light .....	Red—brick .....	Head—mind .....
Music—note .....	Sleep—night .....	Stove—chimney .....
Sickness—health .....	Anger—joy .....	Long—wind .....
Man—woman .....	Carpet—cloth .....	Religion—God .....
Deep—shallow .....	Girl—mouth .....	Whiskey—alcohol .....
Soft—hard .....	High—low .....	Child—mother .....
Eating—breakfast .....	Working—idle .....	Bitter—fruit .....
Mountain—rock .....	Sour—vinegar .....	Hammer—nails .....
House—chimney .....	Earth—round .....	Thirsty—water .....
Black—white .....	Trouble—sickness .....	City—cars .....
Mutton—animal .....	Soldier—gun .....	Square—angles .....
Comfort—chair .....	Cabbage—garden .....	Butter—cow .....
Hand—foot .....	Hard—rock .....	Doctor—sickness .....
Short—long .....	Eagle—fly .....	Loud—noise .....
Fruit—ripe .....	Stomach—man .....	Thief—sinner .....
Butterfly—fields .....	Stem—watch .....	Lion—jungle .....
Smooth—hard .....	Lamp—oil .....	Joy—gladness .....
Command—army .....	Dream—sleep .....	Bed—pillow .....
Chair—straw .....	Yellow—sunflower .....	Heavy—iron .....
Sweet—bitter .....	Bread—butter .....	Tobacco—leaf .....
Whistle—engine .....	Justice—peace .....	Baby—mother .....
Woman—man .....	Boy—girl .....	Moon—stars .....
Cold—hot .....	Light—window .....	Scissors—thread .....
Slow—fast .....	Health—man .....	Quiet—room .....
Wish—desire .....	Bible—God .....	Green—grass .....
River—brook .....	Memory—mind .....	Salt—ocean .....
White—black .....	Sheep—pasture .....	Street—men .....
Beautiful—girl .....	Bath—water .....	King—queen .....
Window—glass .....	Cottage—trees .....	Cheese—butter .....
Rough—smooth .....	Swift—engine .....	Blossom—bud .....
Citizen—city .....	Blue—sky .....	Afraid—coward .....
Foot—ankle .....	Hungry—bread .....	
Spider—web .....	Priest—church .....	

CASE No. 1278.—B. B. Test record not distinguishable from normal. Case of several years standing, but showing almost complete remission of all symptoms.

Table—chair .....	Needle—thread .....	Ocean—sea .....
Dark—day .....	Red—white .....	Head—body .....
Music—instrument .....	Sleep—slumber .....	Stove—iron .....
Sickness—health .....	Anger—kindness .....	Long—length .....
Man—woman ..... 1	Carpet—mat .....	Religion—too ..... 12
Deep—thoughts ..... 1	Girl—boy .....	Whiskey—drink .....
Soft—apple .....	High—short .....	Child—baby .....
Eating—food .....	Working—idle .....	Bitter—taste .....
Mountain—rock .....	Sour—sweet .....	Hammer—nails .....
House—building .....	Earth—land .....	Thirsty—drink .....
Black—dark .....	Trouble—sorrow .....	City—town .....
Mutton—meat .....	Soldier—hero .....	Square—man ..... 1
Comfort—home .....	Cabbage—turnip .....	Butter—bread .....
Hand—from ..... 12	Hard—soft .....	Doctor—patient .....
Short—stout .....	Eagle—owl .....	Loud—howl ..... 17
Fruit—eating .....	Stomach—head .....	Thief—steal .....
Butterfly—bird .....	Stem—pipe .....	Lion—bear .....
Smooth—glossy .....	Lamp—cover ..... 19	Joy—happiness ..... 1
Command—general .....	Dream—sleep .....	Bed—blanket .....
Chair—floor .....	Yellow—brown .....	Heavy—weight .....
Sweet—taste .....	Bread—biscuit .....	Tobacco—smoke .....
Whistle—tune .....	Justice—peaceful ..... 2	Baby—cradle .....
Woman—man ..... 1	Boy—girl .....	Moon—sun .....
Cold—chilly .....	Light—dark .....	Scissors—thimble .....
Slow—fast .....	Health—well .....	Quiet—stillness .....
Wish—something .....	Bible—book .....	Green—plaid ..... 17
River—water .....	Memory—lost ..... 2	Salt—pepper .....
White—black .....	Sheep—animal .....	Street—sidewalk .....
Beautiful—pretty ..... 1	Bath—wash .....	King—queen .....
Window—pane .....	Cottage—house .....	Cheese—crackers .....
Rough—ugly .....	Swift—movements ..... 2	Blossom—leaf .....
Citizen—papers .....	Blue—red .....	Afraid—frightened .....
Foot—shoe .....	Hungry—thirst .....	
Spider—bug .....	Priest—minister .....	

#### PARANOID CONDITIONS.

The clinical group of psychoses included under the designation paranoic conditions is far from being homogeneous. We have here cases that are more or less closely allied to the paranoid form of dementia præcox, other cases that are apparently dependent upon involutional changes (Kraepelin's *praesemiler Beeinträchtigungswahn*), still other cases that are characterized by absence or at least delay of mental deterioration, etc.

In some of these cases disturbance of the flow of utterance is not observed, and the test records obtained from them present no striking abnormalities. Distinctly pathological records are obtained mainly from those cases which clinically resemble dementia præcox; in these records the nature of the pathological reactions would seem to indicate that the diagnosis of dementia præcox would be more justifiable than that of paranoic condition.

The following test records will serve to illustrate the types of reactions met with in this group of psychoses:



## CASE No. 3039.—F. A. Normal record.

Table—purpose .....	19	Needle—sewing .....		Ocean—large .....	
Dark—obscure .....		Red—color .....		Head—trunk .....	
Music—pleasant .....	1	Sleep—bed .....		Stove—fire .....	
Sickness—confinement .....	17	Anger—cross .....		Long—distance .....	
Man—twenty-one .....	12	Carpet—floor .....		Religion—Christianity .....	
Deep—down .....		Girl—young .....		Whiskey—drinkable .....	
Soft—smooth .....		High—up .....		Child—young .....	
Eating—nourishment .....		Working—labor .....		Bitter—bad .....	
Mountain—high .....		Sour—unpleasant .....	1	Hammer—knock .....	
House—living .....		Earth—dirt .....		Thirsty—dry .....	
Black—dark .....		Trouble—worryment .....		City—government .....	
Mutton—eating .....		Soldier—fight .....		Square—block .....	
Comfort—pleasant .....	1	Cabbage—vegetable .....		Butter—eat .....	
Hand—limb .....		Hard—tough .....		Doctor—cure .....	
Short—low .....		Eagle—bird .....		Loud—noisy .....	
Fruit—eat .....		Stomach—anatomy .....		Thief—steal .....	
Butterfly—miller .....		Stem—growth .....		Lion—animal .....	
Smooth—soft .....		Lamp—burn .....		Joy—pleasant .....	
Command—obey .....		Dream—restlessness .....		Bed—laying .....	
Chair—sitting .....		Yellow—color .....		Heavy—weighty .....	
Sweet—tasting .....		Bread—eat .....		Tobacco—smoking .....	
Whistle—noise .....		Justice—right .....		Baby—new-born .....	
Woman—female .....		Boy—young .....		Moon—planet .....	
Cold—unpleasant .....	1	Light—see .....		Scissors—cutting .....	
Slow—easy .....		Health—well .....		Quiet—easy .....	
Wish—want .....		Bible—religion .....		Green—color .....	
River—water .....		Memory—thoughtful .....		Salt—preservative .....	
White—colorless .....		Sheep—animal .....		Street—lane .....	
Beautiful—handsome .....		Bath—wash .....		King—monarch .....	
Window—glass .....		Cottage—house .....		Cheese—eatable .....	
Rough—unpleasant .....	1	Swift—fast .....		Blossom—budding .....	
Citizen—vote .....		Blue—color .....		Afraid—fear .....	
Foot—limb .....		Hungry—appetite .....			
Spider—insect .....		Priest—Christian .....	17		

## CASE No. 5803.—D. E. D. Slight tendency to give sound reactions.

Table—tree .....	19	Needle—pin .....		Ocean—river .....	
Dark—bright .....		Red—yellow .....		Head—neck .....	
Music—song .....		Sleep—slumber .....		Stove—covers .....	
Sickness—health .....	1	Anger—amiable .....		Long—short .....	
Man—woman .....		Carpet—mat .....		Religion—optional .....	
Deep—shallow .....		Girl—boy .....		Whiskey—wine .....	
Soft—hard .....		High—hill .....		Child—baby .....	
Eating—digesting .....		Working—playing .....		Bitter—sweet .....	
Mountain—hill .....		Sour—sweet .....		Hammer—gimlet .....	
House—horse .....	10	Earth—land .....	10	Thirsty—drink .....	
Black—red .....		Trouble—tranquillity .....	10	City—town .....	
Mutton—tallow .....		Soldier—boy .....		Square—compass .....	
Comfort—wealth .....		Cabbage—plant .....		Butter—butterfly .....	
Hand—arm .....		Hard—easy .....		Doctor—lawyer .....	
Short—long .....		Eagle—bird .....		Loud—lord .....	
Fruit—plate .....	17	Stomach—bowels .....		Thief—beggar .....	
Butterfly—net .....		Stem—head .....		Lion—lionesse .....	
Smooth—surface .....		Lamp—chimney .....		Joy—sorrow .....	
Command—obey .....		Dream—myth .....	17	Bed—couch .....	
Chair—table .....		Yellow—blue .....		Heavy—light .....	
Sweet—sour .....		Bread—biscuit .....		Tobacco—cigarette .....	
Whistle—call .....		Justice—balance .....	17	Baby—child .....	
Woman—lady .....		Boy—girl .....		Moon—stars .....	
Cold—lukewarm .....	19	Light—gray .....	17	Scissors—knife .....	
Slow—not .....	12	Health—wealth .....		Quiet—quilt .....	
Wish—receive .....		Bible—prayerbook .....		Green—envy .....	
River—lake .....		Memory—understanding .....		Salt—sewing .....	
White—black .....		Sheep—lamb .....		Street—lane .....	
Beautiful—graceful .....		Bath—swim .....		King—queen .....	
Window—door .....		Cottage—house .....		Cheese—cracker .....	
Rough—smooth .....		Swift—slow .....		Blossom—flower .....	
Citizen—city .....		Blue—yellow .....		Afraid—courageous .....	
Foot—leg .....		Hungry—eat .....			
Spider—soap .....	10	Priest—bishop .....			

CASE No. 2133.—M. F. Unclassified reactions, mostly "far fetched" or incoherent; perseveration.

Table-eat .....	Needle-Carrie .....	19	Ocean-spring .....	15
Dark-night .....	Red-pink .....		Head-canary .....	19
Music-sing .....	Sleep-awake .....		Stove-board .....	
Sickness-sadness .....	Anger-jolly .....	19	Long-dishes .....	18
Man-home .....	Carpet-curtains .....		Religion-piano .....	19
Deep-light .....	Girl-yellow .....	10	Whiskey-home .....	15
Soft-sleep .....	High-green .....	14	Child-baby .....	
Eating-drink .....	Working-bed .....	19	Bitter-shoes .....	19
Mountain-hills .....	Sour-dishes .....	19	Hammer-tacks .....	
House-home .....	Earth-grapes .....	13	Thirsty-longing .....	
Black-stove .....	Trouble-work .....	1	City-Flushing .....	17
Mutton-lamb .....	Soldier-sing .....	15	Square-store .....	10
Comfort-pleasure .....	Cabbage-potatoes .....	15	Butter-butcher .....	10
Hand-write .....	Hard-sewing .....	17	Doctor-hat .....	
Short-short-cake .....	Eagle-daisy .....	19	Loud-chair .....	15
Fruit-grapes .....	Stomach-flowers .....	18	Thief-picture .....	19
Butterfly-butter .....	Stem-vine .....		Lion-house .....	18
Smooth-ironing .....	Lamp-flatiron .....	19	Joy-gladness .....	
Command-correct .....	Dream-sleep .....		Bed-sleep .....	
Chair-see .....	Yellow-awake .....	18	Heavy-sick .....	2
Sweet-apples .....	Bread-children .....		Tobacco-album .....	19
Whistle-happiness .....	Justice-dresses .....	14	Baby-basket .....	17
Woman-girl .....	Boy-mother .....		Moon-stars .....	
Cold-warm .....	Light-dark .....		Scissors-knife .....	
Slow-fast .....	Health-wealth .....		Quiet-spoon .....	18
Wish-like .....	Bible-commands .....	2	Green-scar .....	19
River-water .....	Memory-black .....	18	Salt-pepper .....	
White-blue .....	Sheep-chickens .....	17	Street-sugar .....	18
Beautiful-red .....	Bath-carpet .....	19	King-blackening .....	19
Window-light .....	Cottage-worsted .....	14	Cheese-meat .....	
Rough-easy .....	Swift-silk .....	18	Blossom-flowers .....	
Citizen-spring .....	Blue-cotton .....	18	Afraid-red .....	18
Foot-run .....	Hungry-chair .....	19		
Spider-fly .....	Priest-church .....			

CASE No. 4569.—L. K. Marked stereotypy; unclassified reactions, mostly incoherent.

Table-fruit .....	Needle-house .....	6	Ocean-God .....	6
Dark-light .....	Red-colors .....		Head-servant .....	6
Music-pleasure .....	Sleep-God .....	6	Stove-house .....	
Sickness-illness .....	Anger-God .....	6	Long-God .....	6
Man-parent .....	Carpet-house .....	6	Religion-servant .....	6
Deep-verse .....	Girl-God .....	6	Whiskey-doctor .....	15
Soft-fruit .....	High-house .....		Child-house .....	6
Eating-illness .....	Working-parent .....	6	Bitter-taste .....	
Mountain-parent .....	Sour-desire .....	15	Hammer-household .....	19
House-privilege .....	Earth-God .....	6	Thirsty-drink .....	
Black-colors .....	Trouble-God .....	6	City-God .....	6
Mutton-parent .....	Soldier-house .....	6	Square-touch .....	19
Comfort-family .....	Cabbage-desire .....	15	Butter-taste .....	
Hand-comfort .....	Hard-vegetable .....		Doctor-servant .....	6
Short-parent .....	Eagle-animal .....	9	Loud-thought .....	9
Fruit-parent .....	Stomach-doctor .....		Thief-slave .....	10
Butterfly-insect .....	Stem-growth .....		Lion-animal .....	
Smooth-surface .....	Lamp-house .....		Joy-pleasure .....	1
Command-privilege .....	Dream-God .....	6	Bed-household .....	15
Chair-house .....	Yellow-color .....		Heavy-weight .....	
Sweet-dairy .....	Bread-God .....	6	Tobacco-doctor .....	15
Whistle-nature .....	Justice-fright .....	19	Baby-care .....	
Woman-parent .....	Boy-parent .....	6	Moon-heavens .....	
Cold-house .....	Light-God .....	6	Scissors-household .....	15
Slow-light .....	Health-God .....	5	Quiet-nerve .....	19
Wish-desire .....	Bible-teachings .....		Green-substance .....	19
River-house .....	Memory-teaching .....	2	Salt-taste .....	15
White-suspicion .....	Sheep-God .....	6	Street-heavens .....	15
Beautiful-house .....	Bath-cleanliness .....	6	King-servant .....	6
Window-light .....	Cottage-home .....		Cheese-taste .....	
Rough-surface .....	Swift-fear .....	19	Blossom-sight .....	19
Citizen-parent .....	Blue-color .....		Afraid-fear .....	
Foot-house .....	Hungry-appetite .....			
Spider-insect .....	Priest-servant .....			

CASE No. 6164.—L. E. Remarkably persistent tendency to give sound reactions; numerous sound neologisms; no reactions given in response to some of the stimulus words on the ground that she had "no word to match."

Table—witchhazel	10	Needle—dreadle	3	Ocean—notion	10
Dark—frog	19	Red—shred	10	Head—shred	10
Music—lessons	2	Sleep—seef	3	Stove—shove	3
Sickness—badness	2	Anger—		Long—song	10
Man—wife		Carpet—shloppet	3	Religion—switching	19
Deep—seef	4	Girl—shirl	3	Whiskey—chiston	4
Soft—shoft	3	High—fie	10	Child—kile	3
Eating—feeding		Working—shirking	3	Bitter—shitter	3
Mountain—sounding	10	Sour—bower	10	Hammer—lemon	18
House—shmouse	3	Earth—world		Thirsty—firsten	3
Black—fake	19	Trouble—shuttle	19	City—	
Mutton—shutton	3	Soldier—polster	3	Square—birds	19
Comfort—somfort	3	Cabbage—shernes	4	Butter—shudder	10
Hand—land	10	Hard—shward	3	Doctor—shooter	3
Short—court	10	Eagle—		Loud—souse	10
Fruit—shrewd	10	Stomach—		Thief—sheaf	10
Butterfly—shuddergy	3	Stern—lamp	19	Lion—Zion	10
Smooth—slude	3	Lamp—sant	4	Joy—bloy	3
Command—noman	3	Dream—lean	3	Bed—wading	19
Chair—sash	19	Yellow—cherry	19	Heavy—shleavy	3
Sweet—leaf	19	Bread—dread	10	Tobacco—confecker	4
Whistle—noshissel	3	Justice—chestnuts	10	Baby—savey	3
Woman—lemon	19	Boy—		Moon—shoon	3
Cold—shoal	10	Light—shwife	3	Scissors—	
Slow—snow	10	Health—felt	2	Quiet—shiet	3
Wish—dish		Bible—		Green—sheel	4
River—liberty	10	Memory—		Salt—shawit	3
White—size	10	Sheep—sheet	10	Street—freet	3
Beautiful—		Bath—scab	19	King—sing	10
Window—Hilda	19	Cottage—foppach	3	Cheese—seefs	4
Rough—shoft	3	Swift—shift	10	Blossom—pleasant	9
Citizen—shiffizen	3	Blue—shoe	10	Afraid—shraid	3
Foot—shoot	10	Hungry—angry			
Spider—shider	3	Priest—sheaf	19		

CASE No. 3606.—F. W. Neologisms; some particles; many unclassified reactions, mostly incoherent.

Table—pleasure	9	Needle—pleasant	9	Ocean—apology	19
Dark—air	19	Red—permit	19	Head—trinity	19
Music—walking	19	Sleep—indeed	12	Stove—compartment	19
Sickness—gloves	19	Anger—benevolence	19	Long—terminal	19
Man—fields	19	Carpet—disorder	19	Religion—abundant	19
Deep—courtesy	19	Girl—caterer	19	Whiskey—approvement	4
Soft—spoons	19	High—aside	10	Child—anger	15
Eating—oranges		Working—among	12	Bitter—courageous	19
Mountain—ice	17	Sour—destroy	19	Hammer—correction	19
House—paintings	2	Earth—confusion	19	Thirsty—afterwards	12
Black—blue		Trouble—frivolous	19	City—cataract	19
Mutton—hemisphere	19	Soldier—air	15	Square—plenty	19
Comfort—flowers	19	Cabbage—temptation	19	Butter—accost	19
Hand—sawdust	19	Hard—among	12	Doctor—southern	19
Short—peanuts	19	Eagle—quality	19	Loud—triangular	19
Fruit—autoharp	19	Stomach—debausteur	4	Thief—cannery	19
Butterfly—disease	19	Stern—counteract	19	Lion—practices	19
Smooth—ice		Lamp—testament	19	Joy—summons	19
Command—botheration	19	Dream—connexus	4	Bed—avron	4
Chair—tea	19	Yellow—division	19	Heavy—olenthegolia	4
Sweet—arrangement	19	Bread—atherey	4	Tobacco—abundant	15
Whistle—steadfast	19	Justice—anger	19	Baby—parenthus	4
Woman—flowers	15	Boy—quality	15	Moon—otherwise	12
Cold—grandeur	19	Light—among	12	Scissors—cartridge	19
Slow—present	19	Health—frivolous	15	Quiet—outside	12
Wish—mania	19	Bible—permit	15	Green—abounty	4
River—courtesy	15	Memory—usual	19	Salt—calony	4
White—ink	17	Sheep—astray		Street—abyes	19
Beautiful—flowers		Bath—conscientious	19	King—cavenry	4
Window—air		Cottage—texalous	4	Cheese—perplex	19
Rough—enjoyment	19	Swift—patience	19	Blossom—cartridge	15
Citizen—queer	19	Blue—community	19	Afraid—stubborn	19
Foot—hated	19	Hungry—confusion	15		
Spider—carousy	4	Priest—second	19		

## EPILEPSY.

Most of the cases of epilepsy in our collection show advanced dementia and in some the clinical history would indicate also original mental inferiority, that is to say, imbecility or feeble-mindedness.

In these cases the dominant characteristic, so far as shown in the test records, seems to be a narrowing of the mental horizon manifested firstly by a tendency to repeat many times one or another word, and secondly by an abnormally pronounced tendency to make use of non-specific reactions or particles of speech. Occasionally other abnormalities are noted, such as perseveration or distraction.

We submit here copies of some test records.

CASE No. 5410.—W. T. K. Repetition of words previously given; non-specific reactions.

Table—article .....	1	Needle—article .....	1	Ocean—body .....	
Dark—light .....		Red—color .....		Head—member .....	
Music—tone .....		Sleep—rest .....		Stove—article .....	1
Sickness—ill .....		Anger—condition .....	6	Long—distance .....	
Man—person .....	1	Carpet—covering .....		Religion—profession .....	
Deep—distant .....	2	Girl—female .....		Whiskey—liquid .....	
Soft—condition .....	6	High—distance .....		Child—person .....	1
Eating—chew .....		Working—occupation .....		Bitter—condition .....	6
Mountain—high .....		Sour—condition .....	6	Hammer—article .....	1
House—abode .....		Earth—planet .....		Thirsty—condition .....	6
Black—color .....		Trouble—condition .....	6	City—place .....	
Mutton—meat .....		Soldier—member .....	6	Square—honest .....	
Comfort—peace .....		Cabbage—vegetable .....		Butter—article .....	6
Hand—limb .....		Hard—condition .....	6	Doctor—profession .....	
Short—distance .....		Eagle—animal .....		Loud—sound .....	
Fruit—result .....		Stomach—member .....		Thief—position .....	15
Butterfly—animal .....		Stem—branch .....		Lion—animal .....	
Smooth—plain .....		Lamp—article .....	1	Joy—pleasant .....	1
Command—order .....		Dream—thinking .....	1	Bed—article .....	6
Chair—seat .....		Yellow—shade .....		Heavy—weight .....	
Sweet—pleasant .....	1	Bread—article .....	6	Tobacco—plant .....	
Whistle—sound .....		Justice—position .....	19	Baby—person .....	1
Woman—female .....		Boy—male .....		Moon—planet .....	
Cold—chilly .....		Light—clear .....		Scissors—article .....	1
Slow—pace .....		Health—condition .....		Quiet—peaceful .....	
Wish—desire .....		Bible—book .....		Green—shade .....	
River—body .....		Memory—condition .....	6	Salt—article .....	1
White—clear .....		Sheep—animal .....		Street—place .....	
Beautiful—grand .....	18	Bath—position .....	15	King—ruler .....	
Window—place .....		Cottage—house .....		Cheese—article .....	6
Rough—unsmooth .....	4	Swift—fast .....		Blossom—plant .....	
Citizen—member .....		Blue—color .....		Afraid—fear .....	
Foot—member .....		Hungry—condition .....	6		
Spider—animal .....		Priest—office .....			

CASE No. 2208.—J. A. Repetition of words previously given; non-specific reactions.

Table—wood .....	13	Needle—clothes .....		Ocean—deep .....	
Dark—chairs .....	14	Red—blood .....		Head—bad .....	9
Music—wood .....	14	Sleep—bed .....		Stove—wood .....	
Sickness—dropsy .....	17	Anger—angry .....		Long—trees .....	2
Man—body .....		Carpet—stores .....	10	Religion—form .....	19
Deep—well .....	19	Girl—ladies .....	2	Whiskey—apples .....	17
Soft—lady .....	19	High—mountain .....		Child—people .....	1
Eating—man .....	6	Working—people .....	6	Bitter—apples .....	
Mountain—hills .....		Sour—fruit .....		Hammer—axe .....	
House—barns .....	2	Earth—clay .....		Thirsty—drink .....	
Black—horse .....		Trouble—bad .....	1	City—towns .....	
Mutton—sheep .....		Soldier—man .....	1	Square—measurement .....	
Comfort—poison .....	19	Cabbage—field .....		Butter—cows .....	
Hand—man .....	1	Hard—case .....	19	Doctor—person .....	1
Short—people .....	1	Eagle—bird .....		Loud—people .....	1
Fruit—trees .....		Stomach—man .....	1	Thief—person .....	1
Butterfly—tree .....		Stem—pipe .....		Lion—animal .....	
Smooth—people .....	6	Lamp—fire .....		Joy—person .....	9
Command—general .....		Dream—bad .....	1	Bed—man .....	6
Chair—hands .....	16	Yellow—chair .....	15	Heavy—mountain .....	
Sweet—fruit .....		Bread—rye .....		Tobacco—growing .....	
Whistle—man .....	1	Justice—right .....		Baby—person .....	1
Woman—people .....	1	Boy—bad .....	1	Moon—people .....	6
Cold—ice .....		Light—ship .....	19	Scissors—cutting .....	
Slow—people .....	6	Health—pig .....	19	Quiet—mind .....	
Wish—dead .....	19	Bible—man .....	6	Green—cloud .....	19
River—lakes .....		Memory—mind .....		Salt—planting .....	13
White—foam .....	17	Sheep—mutton .....		Street—walk .....	
Beautiful—man .....	1	Bath—water .....		King—human .....	19
Window—glass .....		Cottage—house .....		Cheese—milk .....	
Rough—people .....	6	Swift—ship .....	15	Blossom—flowers .....	
Citizen—man .....	1	Blue—lines .....	17	Afraid—human .....	15
Foot—people .....	6	Hungry—people .....	6		
Spider—barn .....	15	Priest—man .....	1		

CASE No. 01218.—E. M. Repetition of words previously given; non-specific reactions.

Table—tablecloth .....		Needle—use .....	1	Ocean—useful .....	6
Dark—dog .....		Red—look .....	15	Head—nice .....	6
Music—figure .....	17	Sleep—good .....	1	Stove—lighted .....	2
Sickness—drink .....	17	Anger—no .....	12	Long—lake .....	19
Man—people .....	1	Carpet—make .....	19	Religion—pleasant .....	6
Deep—pull .....	19	Girl—happy .....	9	Whiskey—use .....	6
Soft—light .....		High—nice .....	6	Child—help .....	6
Eating—think .....	1	Working—pleasant .....	1	Bitter—sour .....	
Mountain—well .....	13	Sour—bag .....	10	Hammer—stick .....	19
House—plumber .....	17	Earth—ground .....		Thirsty—drink .....	
Black—horse .....		Trouble—good .....	6	City—handy .....	19
Mutton—park .....	19	Soldier—clothes .....		Square—pleasant .....	6
Comfort—nice .....	1	Cabbage—eat .....		Butter—useful .....	1
Hand—use .....	1	Hard—good .....	1	Doctor—help .....	
Short—long .....		Eagle—pleasant .....	6	Loud—make .....	15
Fruit—figs .....		Stomach—hurt .....	2	Thief—punish .....	2
Butterfly—cloth .....	19	Stem—use .....	1	Lion—bad .....	9
Smooth—nice .....	1	Lamp—lighted .....		Joy—happy .....	1
Command—pleasant .....	6	Dream—pleasant .....	1	Bed—pleasant .....	1
Chair—wash .....	19	Yellow—wake .....	15	Heavy—light .....	
Sweet—sour .....		Bread—making .....		Tobacco—pleasant .....	1
Whistle—mug .....	19	Justice—help .....		Baby—help .....	6
Woman—pear .....	19	Boy—pleasant .....	6	Moon—sun .....	
Cold—warm .....		Light—big .....	19	Scissors—pleasant .....	6
Slow—quickness .....		Health—nice .....	6	Quiet—sleep .....	
Wish—nice .....	1	Bible—use .....	1	Green—beans .....	10
River—pleasant .....	1	Memory—no .....	12	Salt—handy .....	15
White—use .....	6	Sheep—pleasant .....	6	Street—make .....	15
Beautiful—comfort .....	19	Bath—good .....	1	King—nice .....	6
Window—looks .....	2	Cottage—useful .....	6	Cheese—good .....	1
Rough—pleasant .....	6	Swift—quick .....		Blossom—pleasant .....	1
Citizen—comfort .....	15	Blue—good .....	1	Afraid—will .....	19
Foot—help .....		Hungry—sour .....	15		
Spider—wake .....	19	Priest—good .....	1		

## CASE No. 4989.—C. H. Repetition of words previously given; non-specific reactions; particles.

Table—work	1	Needle—steel	12	Ocean—three	12
Dark—true	19	Red—color	12	Head—good	1
Music—pleasant	1	Sleep—plenty	12	Stove—burning	1
Sickness—well	12	Anger—never	12	Long—medium	1
Man—absent	19	Carpet—floor	12	Religion—willing	15
Deep—together	12	Girl—five	12	Whiskey—some	19
Soft—plenty	6	High—medium	12	Child—good	1
Eating—good	1	Working—always	6	Bitter—never	6
Mountain—together	12	Sour—never	6	Hammer—tool	1
House—one	12	Earth—cultivate	17	Thirsty—seldom	6
Black—America	19	Trouble—none	17	City—New York	1
Mutton—vegetable	2	Soldier—willing	15	Square—always	6
Comfort—sleep	12	Cabbage—vegetable	12	Butter—good	1
Hand—nothing	19	Hard—seldom	12	Doctor—good	1
Short—never	12	Eagle—American	12	Loud—medium	6
Fruit—vegetable	12	Stomach—no	12	Thief—none	1
Butterfly—bird	12	Stem—one	12	Lion—animal	1
Smooth—large	0	Lamp—burning	12	Joy—plenty	6
Command—willing	6	Dream—always	6	Red—good	1
Chair—good	6	Yellow—sometimes	12	Heavy—medium	6
Sweet—always	6	Bread—soft	12	Tobacco—yes	12
Whistle—music	12	Justice—always	12	Baby—more	10
Woman—one	12	Boy—two	12	Moon—bright	12
Cold—medium	6	Light—plenty	12	Scissors—sharp	12
Slow—quick	12	Health—plenty	12	Quiet—plenty	6
Wish—hope	12	Bible—Catholic	17	Green—good	6
River—lake	12	Memory—good	1	Salt—little	19
White—always	6	Sheep—wool	12	Street—lots	18
Beautiful—medium	6	Bath—good	1	King—none	12
Window—open	12	Cottage—plenty	6	Cheese—seldom	6
Rough—smooth	12	Swift—medium	6	Blossom—always	6
Citizen—American	12	Blue—never	6	Afraid—sometimew	15
Foot—two	12	Hungry—seldom	6		
Spider—butterfly	12	Priest—good	1		

## CASE No. 4847.—C. C. Distraction.

Table—eat	12	Needle—scissors	17	Ocean—beans	19
Dark—lock	10	Red—blue	12	Head—prunes	18
Music—iddle	12	Sleep—pink	18	Stove—cook	12
Sickness—doctors	2	Anger—box	19	Long—fig	19
Man—woman	1	Carpet—rug	12	Religion—church	12
Deep—water	12	Girl—boy	12	Whiskey—tea	17
Soft—snow	12	High—play	12	Child—people	1
Eating—oats	17	Working—cup	19	Bitter—stomach	19
Mountain—spray	19	Sour—bread	17	Hammer—tack	12
House—building	12	Earth—picture	19	Thirsty—peach	15
Black—red	15	Trouble—soap	19	City—box	15
Mutton—meat	9	Soldier—towel	18	Square—soap	15
Comfort—ryd	15	Cabbage—turnip	12	Butter—lard	12
Hand—people	9	Hard—tree	12	Doctor—nick	12
Short—world	10	Eagle—clock	19	Loud—head	10
Fruit—age	18	Stomach—eat	12	Thief—cup	15
Butterfly—bird	12	Stem—soap	15	Lion—bottle	15
Smooth—eggs	18	Lamp—oil	12	Joy—pitcher	19
Command—cake	19	Dream—glass	18	Red—sheet	12
Chair—world	15	Yellow—bottle	18	Heavy—blanket	18
Sweet—cherries	18	Bread—soap	15	Tobacco—mustard	19
Whistle—peaches	18	Justice—pencil	19	Baby—pepper	18
Woman—children	12	Boy—picture	15	Moon—heater	19
Cold—summer	17	Light—darkness	12	Scissors—string	12
Slow—brother	19	Health—washstand	19	Quiet—lace	19
Wish—pear	19	Bible—book	12	Green—red	12
River—orange	18	Memory—saucer	19	Salt—soda	17
White—black	12	Sheep—chair	19	Street—soldier	19
Beautiful—red	18	Bath—bureau	14	King—box	15
Window—door	12	Cottage—pan	19	Cheese—cake	12
Rough—table	12	Swift—towel	15	Blossom—shell	19
Citizen—couch	19	Blue—wash	2	Afraid—blotter	19
Foot—arm	12	Hungry—eat	12		
Spider—fly	12	Priest—church	12		

CASE No. 3597.—L. T. Some neologisms, all possessing obvious meaning.

Table—stand .....	Needle—pin .....	Ocean—sea .....
Dark—light .....	Red—blue .....	Head—topness .....
Music—instrument .....	Sleep—awake .....	Stove—cooking ..... 4
Sickness—health .....	Anger—patient ..... 2	Long—shorter ..... 2
Man—female .....	Carpet—rug .....	Religion—wickedness ...
Deep—deftableness ..... 4	Girl—servant .....	Whiskey—medicine .....
Soft—hard .....	High—low .....	Child—daughter .....
Eating—starving .....	Working—laziness .....	Bitter—sweetness ..... 2
Mountain—isthmus ..... 17	Sour—sweet .....	Hammer—pickaxe ..... 17
House—building .....	Earth—hemisphere .....	Thirsty—drunkenness ..... 4
Black—white .....	Trouble—goodness ..... 9	City—village .....
Mutton—beef .....	Soldier—merchant ..... 17	Square—straightness .... 2
Comfort—patient .....	Cabbage—pumpkin ..... 17	Butter—syrup ..... 17
Hand—leg .....	Hard—tight .....	Doctor—queen ..... 19
Short—long .....	Eagle—hawk .....	Loud—low .....
Fruit—vegetable .....	Stomach—abdomen .....	Thief—burglar .....
Butterfly—spider .....	Stem—leaf .....	Lion—tiger .....
Smooth—coarse .....	Lamp—lantern .....	Joy—enjoyable ..... 2
Command—thought ..... 1	Dream—nightmare .....	Red—bedstead .....
Chair—utensil ..... 19	Yellow—lavender ..... 17	Heavy—lightness .....
Sweet—sour .....	Bread—pastry .....	Tobacco—sweetness ..... 2
Whistle—trumpet .....	Justice—badness ..... 2	Baby—infant .....
Woman—man ..... 1	Boy—child .....	Moon—sun .....
Cold—warm .....	Light—darkness .....	Scissors—shears .....
Slow—quick .....	Health—sickness .....	Quiet—noisencas ..... 4
Wish—command .....	Bible—testament .....	Green—greenbill ..... 3
River—lake .....	Memory—remember .....	Salt—sugar .....
White—black .....	Sheep—lamb .....	Street—land ..... 19
Beautiful—pretty ..... 1	Bath—dirtiness ..... 2	King—nephew ..... 19
Window—door .....	Cottage—building .....	Cheese—curdness ..... 4
Rough—straight .....	Swift—quickly .....	Blossom—bud .....
Citizen—tramp ..... 19	Blue—redness ..... 2	Afraid—knowledgeable ... 4
Foot—arm .....	Hungry—starving .....	
Spider—fly .....	Priest—minister .....	

#### GENERAL PARESIS.

Cases presenting no considerable dementia or confusion and cases in a state of remission are apt to give normal test records. As we proceed from the records of such cases to those of cases showing mental deterioration we observe a gradual reduction in the values of reactions, contraction of the mental horizon,<sup>1</sup> and the appearance of the phenomenon of perseveration. We submit the following test records for illustration:

<sup>1</sup> What we mean by contraction of the mental horizon has already been described in connection with epilepsy, page 47.

CASE No. 4047.—C. A. F. Almost complete remission of all mental symptoms. Normal record.

Table—dish .....	Needle—sharp .....	Ocean—sea .....
Dark—light .....	Red—color .....	Head—top .....
Music—sound .....	Sleep—slumber .....	Stove—fire .....
Sickness—disease .....	Anger—rage .....	Long—short .....
Man—woman ..... 1	Carpet—sweep .....	Religion—holy .....
Deep—fathomless .....	Girl—maiden .....	Whiskey—drink .....
Soft—sweet .....	High—lofty .....	Child—infant .....
Eating—food .....	Working—toiling .....	Bitter—sour .....
Mountain—high .....	Sour—distasteful .....	Hammer—knock .....
House—barn .....	Earth—ground .....	Thirsty—drink .....
Black—color .....	Trouble—sorrow .....	City—town .....
Mutton—meat .....	Soldier—fighter .....	Square—round .....
Comfort—ease .....	Cabbage—leaf .....	Butter—eat .....
Hand—foot .....	Hard—easy .....	Doctor—physician .....
Short—long .....	Eagle—fly .....	Loud—knock .....
Fruit—sweet .....	Stomach—food .....	Thief—steal .....
Butterfly—moth .....	Stem—petal .....	Lion—tiger .....
Smooth—rough .....	Lamp—light .....	Joy—happiness ..... 1
Command—order .....	Dream—slumber .....	Bed—sleep .....
Chair—leg .....	Yellow—color .....	Heavy—weigh .....
Sweet—pleasant ..... 1	Bread—eat .....	Tobacco—smoke .....
Whistle—sound .....	Justice—judgment .....	Baby—child .....
Woman—female .....	Boy—youth .....	Moon—stars .....
Cold—ice .....	Light—lamp .....	Scissors—cut .....
Slow—languid ..... 17	Health—nature ..... 17	Quiet—soft .....
Wish—desire .....	Bible—holy .....	Green—color .....
River—long .....	Memory—remember .....	Salt—food .....
White—color .....	Sheep—lamb .....	Street—lane .....
Beautiful—fair .....	Bath—water .....	King—queen .....
Window—glass .....	Cottage—house .....	Cheese—eat .....
Rough—smooth .....	Swift—fast .....	Blossom—flower .....
Citizen—voter .....	Blue—color .....	Afraid—fear .....
Foot—toe .....	Hungry—famished .....	
Spider—fly .....	Priest—holy .....	

CASE No. 6660.—F. F. Repetition of words previously given; non-specific reactions; unclassified reactions some of which are “circumstantial” (see page 25).

Table—bureau ..... 19	Needle—sew .....	Ocean—bouts .....
Dark—boats ..... 2	Red—nice ..... 6	Head—brains .....
Music—piano .....	Sleep—rest .....	Stove—heat .....
Sickness—doctor .....	Anger—cross .....	Long—streets .....
Man—sober ..... 19	Carpet—good .....	Religion—Catholic .....
Deep—cellar .....	Girl—nice ..... 1	Whiskey—bad ..... 1
Soft—easy .....	High—good ..... 1	Child—good ..... 1
Eating—chewing .....	Working—well ..... 19	Bitter—sorrow .....
Mountain—climb .....	Sour—bitter .....	Hammer—use ..... 1
House—tenants ..... 2	Earth—property ..... 19	Thirsty—drink .....
Black—color .....	Trouble—fighting .....	City—Brooklyn .....
Mutton—meat .....	Soldier—good ..... 1	Square—parks ..... 2
Comfort—easy .....	Cabbage—eat .....	Butter—ice ..... 19
Hand—use ..... 1	Hard—sorry ..... 19	Doctor—cure .....
Short—stump ..... 2	Eagle—good ..... 6	Loud—holler .....
Fruit—nice ..... 1	Stomach—good ..... 1	Thief—no ..... 2
Butterfly—like ..... 6	Stein—fair ..... 19	Lion—no ..... 6
Smooth—clean .....	Lamp—use ..... 1	Joy—hope .....
Command—faithful ..... 17	Dream—now ..... 12	Bed—rest .....
Chair—easy .....	Yellow—color .....	Heavy—load .....
Sweet—like ..... 6	Bread—good ..... 1	Tobacco—good ..... 1
Whistle—good ..... 6	Justice—fine ..... 1	Baby—good ..... 1
Woman—like ..... 6	Boy—good ..... 1	Moon—light .....
Cold—medicine .....	Light—good ..... 1	Scissors—use ..... 1
Slow—? ..... 12	Health—right ..... 19	Quiet—good ..... 1
Wish—like .....	Bible—home .....	Green—nice ..... 6
River—boats .....	Memory—good ..... 1	Salt—use ..... 1
White—sheet .....	Sheep—like ..... 6	Street—nice ..... 1
Beautiful—flowers .....	Bath—good ..... 1	King—right ..... 19
Window—red ..... 14	Cottage—fine ..... 1	Cheese—nice ..... 1
Rough—streets ..... 2	Swift—go .....	Blossom—grow .....
Citizen—honest .....	Blue—nice ..... 6	Afraid—no .....
Foot—walking .....	Hungry—bad ..... 1	
Spider—kill ..... 19	Priest—Father .....	



CASE No. 6185.—R. N. Numerous particles of speech; some unclassified reactions, chiefly "circumstantial" (see page 25).

Table—eat .....	Needle—sewing .....	Ocean—water .....
Dark—cloudy .....	Red—blue .....	Head—human .....
Music—fond .....	Sleep—nap .....	Stove—coal .....
Sickness—well .....	Anger—willing .....	Long—short .....
Man—human .....	Carpet—yes .....	Religion—yes .....
Deep—ocean .....	Girl—nature .....	Whiskey—no .....
Soft—fine .....	High—low .....	Child—baby .....
Eating—yes .....	Working—artist .....	Bitter—sweet .....
Mountain—yes .....	Sour—sweet .....	Hammer—pincher .....
House—yes .....	Earth—world .....	Thirsty—drinking .....
Black—yes .....	Trouble—peaceful .....	City—population .....
Mutton—yes .....	Soldier—no .....	Square—circle .....
Comfort—yes .....	Cabbage—vegetable .....	Butter—lard .....
Hand—finger .....	Hard—soft .....	Doctor—physician .....
Short—yes .....	Eagle—American .....	Loud—low .....
Fruit—yes .....	Stomach—condition .....	Thief—penalty .....
Butterfly—yes .....	Stem—pot .....	Lion—lion .....
Smooth—even .....	Lamp—light .....	Joy—welcome .....
Command—obey .....	Dream—thinking .....	Red—sleep .....
Chair—settle .....	Yellow—green .....	Heavy—light .....
Sweet—bitter .....	Bread—loaf .....	Tobacco—yes .....
Whistle—can't .....	Justice—yes .....	Baby—human .....
Woman—lady .....	Boy—human .....	Moon—natural .....
Cold—ice .....	Light—heaven .....	Scissors—no .....
Slow—fast .....	Health—wealth .....	Quiet—yes .....
Wish—give .....	Bible—yes .....	Green—shade .....
River—enjoyment .....	Memory—yes .....	Salt—eat .....
White—black .....	Sheep—animal .....	Street—town .....
Beautiful—yes .....	Bath—yes .....	King—ruler .....
Window—pane .....	Cottage—yes .....	Cheese—eat .....
Rough—smooth .....	Swift—fast .....	Blossom—blooming .....
Citizen—yes .....	Blue—gray .....	Afraid—scared .....
Foot—one .....	Hungry—no .....	
Spider—yes .....	Priest—yes .....	

CASE No. 6518.—C. Z. Perseveration shown by numerous instances of association to preceding reaction.

Table—horse .....	Needle—pin .....	Ocean—mother .....
Dark—wren .....	Red—blue .....	Head—brother .....
Music—lark .....	Sleep—awake .....	Stove—sister .....
Sickness—cold .....	Anger—bad .....	Long—freedom .....
Man—woman .....	Carpet—sawper .....	Religion—smart .....
Deep—sea .....	Girl—boy .....	Whiskey—wine .....
Soft—hard .....	High—low .....	Child—lamb .....
Eating—drinking .....	Working—playing .....	Bitter—goat .....
Mountain—fountain .....	Sour—sweet .....	Hammer—nails .....
House—barn .....	Earth—ground .....	Thirsty—dry .....
Black—stable .....	Trouble—whitethrow .....	City—talking .....
Mutton—cow .....	Soldier—Mexican .....	Square—inches .....
Comfort—horse .....	Cabbage—potatoes .....	Butter—cheese .....
Hand—lamb .....	Hard—beets .....	Doctor—bread .....
Short—calf .....	Eagle—carrots .....	Loud—oranges .....
Fruit—apples .....	Stomach—peas .....	Thief—almonds .....
Butterfly—oranges .....	Stem—peas .....	Lion—apples .....
Smooth—peaches .....	Lamp—burning .....	Joy—grapes .....
Command—plums .....	Dream—happy .....	Red—peaches .....
Chair—bench .....	Yellow—blue .....	Heavy—cranberries .....
Sweet—sugar .....	Bread—green .....	Tobacco—grapes .....
Whistle—drum .....	Justice—freedom .....	Baby—watermelons .....
Woman—man .....	Boy—girl .....	Moon—muskmelons .....
Cold—hot .....	Light—burning .....	Scissors—citrons .....
Slow—fast .....	Health—strength .....	Quiet—squashes .....
Wish—who .....	Bible—prayerbook .....	Green—pumpkins .....
River—water .....	Memory—thoughts .....	Salt—cucumbers .....
White—blue .....	Sheep—lamb .....	Street—tomatoes .....
Beautiful—splendid .....	Bath—water .....	King—pears .....
Window—sashes .....	Cottage—house .....	Cheese—apples .....
Rough—ready .....	Swift—whist .....	Blossom—cherries .....
Citizen—Brooklyn .....	Blue—red .....	Afraid—gooseberries .....
Foot—shoe .....	Hungry—eating .....	
Spider—web .....	Priest—father .....	

CASE No. 5329.—B. W. Perseveration; record almost entirely made up of instances of association to preceding reaction.

Table—San Francisco ..19	Needle—Texas .....	18	Ocean—lake .....
Dark—comprehensible ..19	Red—North Carolina ..18		Head—bay .....
Music—singing .....	Sleep—Florida .....	18	Stove—sound .....
Sickness—Brooklyn ..19	Anger—Seattle .....	18	Long—Island .....
Man—woman .....	Carpet—Nevada .....	18	Religion—Boston ..18
Deep—amazing .....	Girl—Iowa .....	15	Whiskey—Harvard ..18
Soft—pleasant .....	High—Virginia .....	18	Child—Yale .....
Eating—digesting .....	Working—Louisiana ..18		Bitter—Columbia ..18
Mountain—gulf .....	Sour—Hawaii .....	18	Hammer—library ..18
House—peninsula .....	Earth—Connecticut ..18		Thirsty—Carnegie ..18
Black—Constantinople ..18	Trouble—Rhode Island ..18		City—Rockefeller ..18
Mutton—Bermuda .....	Soldier—Vermont .....	18	Square—Harriman ..18
Comfort—Los Angeles ..18	Cabbage—Massachusetts ..18		Butter—Leggitt .....
Hand—Cuba .....	Hard—Hudson .....	18	Doctor—Lincoln ..18
Short—cities .....	Eagle—East River .....	18	Loud—Roosevelt ..18
Fruit—Iowa .....	Stomach—Staten Island ..18		Thief—Taft .....
Butterfly—England .....	Stem—Kings Park .....	18	Lion—Gaynor .....
Smooth—Russia .....	Lamp—Fort Lee .....	18	Joy—Slocum .....
Command—Turkey .....	Dream—Long Island .....	18	Bed—Grant .....
Chair—Manila .....	Yellow—Greenport .....	18	Heavy—McClellan ..18
Sweet—Porto Rico .....	Bread—Southold .....	18	Tobacco—Spain .....
Whistle—Washington ..18	Justice—Northport .....	18	Baby—New London ..18
Woman—Cincinnati .....	Boy—New Jersey .....	18	Moon—Newburgh ..18
Cold—Pittsburg .....	Light—Rome .....	18	Scissors—Troy .....
Slow—Philadelphia .....	Health—Italy .....	18	Quiet—Schenectady ..18
Wish—Milwaukee .....	Bible—Episcopal .....	17	Green—Lake George ..18
River—St. Louis .....	Memory—Methodist .....	18	Salt—Vienna .....
White—Japan .....	Sharp—Congregational ..18		Street—Alsace Lorraine ..18
Beautiful—China .....	Bath—Baptist .....	18	King—Garfield .....
Window—Berlin .....	Cottage—minister .....	18	Cheese—McKinley .....
Rough—Glasgow .....	Swift—physician .....	18	Blossom—Bryan .....
Citizen—London .....	Blue—horse .....	18	Afraid—Blaine .....
Foot—Dublin .....	Hungry—cow .....	18	
Spider—Sacramento .....	Priest—Catholic .....		

#### MANIC-DEPRESSIVE INSANITY.

In this disorder the departures from the normal seem to be less pronounced than in the psychoses considered above. The number of individual reactions is in most cases not greatly above the normal average; and, so far as their character is concerned, we find that many of them are classed as normal, in accordance with the appendix to the frequency tables; among the unclassified reactions, which are quite frequent here, we find mostly either obviously normal ones, or some of the type to which we have already referred as "far-fetched," while others among them are "circumstantial" (see p. 25); further we find that most of the remaining individual reactions fall into the general group of partial dissociation: non-specific reactions, sound reactions, word complements, and particles.

In some cases the only abnormality that is found is that of an undue tendency to respond by non-specific reactions, most of them being common and there being no excessive number of individual reactions. It would seem legitimate to assume that this tendency

is here to be regarded as a manifestation of the phenomenon which is clinically described as *dearth of ideas*. It is significant that this tendency is observed not only in depressive phases of the psychosis, but also in manic phases and even in the normal intervals of recurrent cases or after apparent recovery in acute cases; this will be seen from some of the test records which are here reproduced.

Occasionally cases are met with which give a large number of unclassified reactions, seemingly incoherent. There can be no doubt that at least some of these cases are clinically perfectly typical ones of manic-depressive insanity, yet the test records strongly resemble, in some respects, those of dementia præcox. Since clinically the distinction between typical cases of these psychoses can be so clearly made on the basis of the disorders of the flow of thought respectively characterizing them, it could hardly be assumed that the associational disturbances in these two groups of cases are truly related, although there may be an apparent resemblance; it must be acknowledged that we are here confronted with one of the most serious shortcomings of the association test, or at least of the present method of applying it.

CASE No. 5236.—M. B. Depressive attack. Normal record.

Table—eat .....	Needle—sew .....	Ocean—water .....
Dark—night .....	Red—color .....	Head—body .....
Music—play .....	Sleep—rest .....	Stove—fire .....
Sickness—death .....	Anger—badness .....	Long—tall .....
Man—health .....	Carpet—floor .....	Religion—teaching .....
Deep—depth .....	Girl—young .....	Whiskey—drink .....
Soft—hard .....	High—low .....	Child—young .....
Eating—chewing .....	Working—busy .....	Bitter—sweet .....
Mountain—high .....	Sour—sweet .....	Hammer—nail .....
House—living .....	Earth—live .....	Thirsty—drink .....
Black—color .....	Trouble—grief .....	City—town .....
Mutton—sheep .....	Soldier—army .....	Square—four .....
Comfort—kind .....	Cabbage—garden .....	Butter—eat .....
Hand—body .....	Hard—stone .....	Doctor—medicine .....
Short—small .....	Eagle—bird .....	Loud—noise .....
Fruit—garden .....	Stomach—body .....	Thief—steal .....
Butterfly—spring .....	Stem—plant .....	Lion—beast .....
Smooth—rough .....	Lamp—light .....	Joy—kind .....
Command—obey .....	Dream—sleep .....	Bed—sleep .....
Chair—sit .....	Yellow—color .....	Heavy—weight .....
Sweet—apple .....	Bread—eat .....	Tobacco—smoke .....
Whistle—music .....	Justice—kind .....	Baby—mother .....
Woman—kind .....	Boy—young .....	Moon—light .....
Cold—chilly .....	Light—day .....	Scissors—cut .....
Slow—easy .....	Health—strength .....	Quiet—kind .....
Wish—want .....	Bible—Christ .....	Green—grass .....
River—water .....	Memory—think .....	Salt—table .....
White—color .....	Sheep—mutton .....	Street—walk .....
Beautiful—grand .....	Bath—clean .....	King—government .....
Window—light .....	Cottage—live .....	Cheese—eat .....
Rough—smooth .....	Swift—run .....	Blossom—tree .....
Citizen—man .....	Blue—color .....	Afraid—coward .....
Foot—body .....	Hungry—food .....	
Spider—animal .....	Priest—clergy .....	

CASE No. 6120.—M. L. Maniacal attack. Fifteen individual reactions, of which 11 are classed as normal in accordance with the appendix to the frequency tables.

Table—chair .....	Needle—doctor .....	Ocean—sea .....
Dark—light .....	Red—white .....	Head—neck .....
Music—chorus .....	Sleep—well .....	Stove—electricity .....
Sickness—health .....	Anger—passion .....	Long—broad .....
Man—woman .....	Carpet—cloth .....	Religion—Presbyterian ..
Deep—around .....	Girl—boy .....	Whiskey—medicinal .... 2
Soft—light .....	High—low .....	Child—boy .....
Eating—food .....	Working—pleasure .... 1	Bitter—sweet .....
Mountain—valley .....	Sour—sweet .....	Hammer—saw .....
House—flat .....	Earth—heaven .....	Thirsty—water .....
Black—white .....	Trouble—anger .....	City—Middle-town .... 17
Mutton—beef .....	Soldier—mine .....	Square—Madison .....
Comfort—disease .....	Cabbage—steak .....	Butter—bread .....
Hand—legs .....	Hard—soft .....	Doctor—love .....
Short—tall .....	Eagle—parrot .....	Loud—soft .....
Fruit—grapes .....	Stomach—pelvis .....	Thief—burglar .....
Butterfly—birds .....	Stem—flowers .....	Lion—animal .....
Smooth—rough .....	Lamp—light .....	Joy—ecstasy .....
Command—president .... 17	Dream—empty .....	Bed—couch .....
Chair—assemblyman .... 18	Yellow—black .....	Heavy—lead .....
Sweet—bitter .....	Bread—brown .....	Tobacco—smoke .....
Whistle—birds .....	Justice—done .....	Baby—boy .....
Woman—man .....	Boy—baby .....	Moon—stars .....
Cold—warm .....	Light—heaven .....	Scissors—cotton .... 17
Slow—fast .....	Health—wealth .....	Quiet—noisy .....
Wish—well .....	Bible—love .....	Green—yellow .....
River—mountain .....	Memory—remembrance..	Salt—pepper .....
White—red .....	Sheep—goat .....	Street—Dean .....
Beautiful—heaven .....	Bath—water .....	King—God .....
Window—door .....	Cottage—house .....	Chess—Roguefort .... 17
Rough—smooth .....	Swift—slow .....	Blossom—apple .....
Citizen—naturalization..	Blue—green .....	Afraid—never .....
Foot—hand .....	Hungry—I .....	
Spider—bug .....	Priest—minister .....	

CASE No. 6367.—J. N. Depressive attack. Only two individual reactions, both classed as normal; undue tendency to give non-specific reactions.

Table—cup .....	Needle—thread .....	Ocean—water .....
Dark—light .....	Red—blue .....	Head—arm .....
Music—song .....	Sleep—rest .....	Stove—warm .....
Sickness—pain .....	Anger—passion .....	Long—short .....
Man—child .....	Carpet—rug .....	Religion—good .....
Deep—high .....	Girl—child .....	Whiskey—none .....
Soft—hard .....	High—low .....	Child—good .....
Eating—tasting .....	Working—labor .....	Bitter—sour .....
Mountain—valley .....	Sour—sweet .....	Hammer—noise .....
House—room .....	Earth—ground .....	Thirsty—water .....
Black—white .....	Trouble—overcome .... 17	City—country .....
Mutton—lamb .....	Soldier—brave .....	Square—round .....
Comfort—peace .....	Cabbage—lettuce .....	Butter—salt .....
Hand—foot .....	Hard—soft .....	Doctor—good .....
Short—long .....	Eagle—bird .....	Loud—noise .....
Fruit—apple .....	Stomach—heart .....	Thief—man .....
Butterfly—moth .....	Stem—tree .....	Lion—beast .....
Smooth—rough .....	Lamp—light .....	Joy—good .....
Command—obey .....	Dream—sleep .....	Bed—good .....
Chair—table .....	Yellow—red .....	Heavy—weight .....
Sweet—sour .....	Bread—roll .....	Tobacco—smoke .....
Whistle—song .....	Justice—peace .....	Baby—child .....
Woman—love .....	Boy—child .....	Moon—sun .....
Cold—warm .....	Light—sun .....	Scissors—knife .....
Slow—fast .....	Health—wealth .....	Quiet—rest .....
Wish—well .....	Bible—good .....	Green—red .....
River—water .....	Memory—good .....	Salt—water .....
White—black .....	Sheep—lamb .....	Street—city .....
Beautiful—grand .....	Bath—water .....	King—man .....
Window—glass .....	Cottage—house .....	Cheese—butter .....
Rough—smooth .....	Swift—fast .....	Blossom—flower .....
Citizen—man .....	Blue—white .....	Afraid—fear .....
Foot—hand .....	Hungry—eat .....	
Spider—fly .....	Priest—man .....	

CASE No. 5162.—W. H. Recurrent attacks, mixed in character; at time of test patient was in a normal interval. 5 individual reactions, of which 1 is classed as normal, 1 as a derivative, 2 as non-specific, and 1 as a sound reaction; undue tendency to give non-specific (common) reactions.

Table—comfort .....	Needle—sharpness .....	Ocean—sailing .....
Dark—darkness ..... 8	Red—blood .....	Head—thinking ..... 1
Music—pleasure ..... 1	Sleep—comfort .....	Stove—warmth .....
Sickness—sorrow .....	Anger—passion .....	Long—length .....
Man—manners ..... 10	Carpet—walking .....	Religion—holiness .....
Deep—thought ..... 1	Girl—lovely .....	Whiskey—badness ..... 2
Soft—comfort .....	High—height .....	Child—pleasure ..... 1
Eating—pleasure ..... 1	Working—business .....	Bitter—sourness .....
Mountain—height .....	Sour—tart .....	Hammer—pounding .....
House—comfort .....	Earth—planting .....	Thirsty—drinking .....
Black—darkness .....	Trouble—sorrow .....	City—town .....
Mutton—eating .....	Soldier—fighting .....	Square—measure .....
Comfort—pleasure ..... 1	Cabbage—eating .....	Butter—greasy .....
Hand—useful ..... 1	Hard—harshness ..... 2	Doctor—medicine .....
Short—stumpy .....	Eagle—flying ..... 2	Loud—hearing ..... 2
Fruit—eating .....	Stomach—eating .....	Thief—stealing .....
Butterfly—handsome .....	Stem—vine .....	Lion—fierceness .....
Smooth—plane .....	Lamp—lighting ..... 2	Joy—pleasure ..... 1
Command—ordering .....	Dream—pleasure ..... 1	Bed—sleeping .....
Chair—easy .....	Yellow—color .....	Heavy—solid .....
Sweet—candy .....	Bread—eating .....	Tobacco—pleasure ..... 1
Whistle—noise .....	Justice—suing ..... 17	Baby—loveliness .....
Woman—love .....	Boy—children .....	Moon—bright .....
Cold—freezing .....	Light—seeing .....	Scissors—sharpness .....
Slow—laziness .....	Health—pleasure ..... 1	Quiet—pleasure ..... 1
Wish—good ..... 1	Bible—thinking ..... 0	Green—color .....
River—water .....	Memory—recollections .. 0	Salt—taste .....
White—cleanness ..... 2	Sheep—wool .....	Street—walking .....
Beautiful—handsome ..	Bath—pleasure ..... 1	King—majestic .....
Window—scene .....	Cottage—living .....	Chesse—eating .....
Rough—harshness .....	Swift—quickness .....	Blossom—handsome .....
Citizen—voting .....	Blue—sky .....	Afraid—fear .....
Foot—stepping .....	Hungry—pleasure ..... 0	
Spider—poison .....	Priest—holiness .....	

CASE No. 6279.—A. F. Maniacal attack; at time of test patient had improved, though not recovered. Non-specific reactions; particles. (Patient does not speak English with perfect fluency.)

Table—board .....	Needle—steel .....	Ocean—Grove .....
Dark—night .....	Red—rose .....	Head—black .....
Music—piano .....	Sleep—well .....	Stove—shine ..... 10
Sickness—appendicitis ..	Anger—not .....	Long—square .....
Man—husband .....	Carpet—beauty ..... 1	Religion—no .....
Deep—hole .....	Girl—love .....	Whiskey—champagne ... 17
Soft—hard .....	High—reason ..... 19	Child—my ..... 2
Eating—vegetable .....	Working—dress ..... 13	Bitter—pepper .....
Mountain—country .....	Sour—vinegar .....	Hammer—knock .....
House—comfort .....	Earth—ground .....	Thirsty—no ..... 12
Black—cotton ..... 17	Trouble—much .....	City—New York .....
Mutton—lamb .....	Soldier—blue .....	Square—table .....
Comfort—rest .....	Cabbage—sour .....	Butter—good ..... 1
Hand—arm .....	Hard—no ..... 12	Doctor—B. .... 17
Short—journey .....	Eagle—paper .....	Loud—talk .....
Fruit—apples .....	Stomach—well ..... 17	Thief—night .....
Butterfly—love ..... 13	Stem—flower .....	Lion—yes ..... 12
Smooth—nice ..... 1	Lamp—light .....	Joy—good ..... 1
Command—order .....	Dream—awful ..... 19	Bed—comfort .....
Chair—down ..... 12	Yellow—flower .....	Heavy—iron .....
Sweet—sugar .....	Bread—rye .....	Tobacco—strong .....
Whistle—blow .....	Justice—court .....	Baby—love .....
Woman—good ..... 1	Boy—little .....	Moon—shine .....
Cold—ice .....	Light—room .....	Scissors—cut .....
Slow—lazy .....	Health—love ..... 15	Quiet—well .....
Wish—home .....	Bible—no ..... 12	Green—bow ..... 17
River—boat .....	Memory—good ..... 1	Salt—bitter .....
White—milk .....	Sheep—lot ..... 19	Street—Hinsdale ..... 17
Beautiful—flowers .....	Bath—cold .....	King—Franz Joseph ... 17
Window—corner .....	Cottage—little .....	Chesse—Swiss .....
Rough—man ..... 1	Swift—kick ..... 17	Blossom—nice ..... 1
Citizen—not ..... 12	Blue—no ..... 12	Afraid—no .....
Foot—short .....	Hungry—no .....	
Spider—don't ..... 12	Priest—love ..... 15	

CASE No. 4578.—E. M. Circular insanity of over twenty years' standing; at time of test patient was in a manic phase. Non-specific reactions; doubtful reactions; neologisms, all possessing obvious meaning.

Table—using .....	1	Needle—article .....	1	Ocean—water .....	
Dark—unbright .....	4	Red—color .....		Head—body .....	
Music—songs .....		Sleep—tiredness .....	4	Stove—article .....	1
Sickness—catching .....	17	Anger—scolding .....		Long—shortly .....	2
Man—masculine .....		Carpet—article .....	1	Religion—Bible .....	
Deep—high .....		Girl—female .....		Whiskey—drinking .....	
Soft—chew .....	19	High—low .....		Child—disremembering .....	4
Eating—sometimes .....	12	Working—do .....		Bitter—taste .....	
Mountain—highlands .....		Sour—tasting .....		Hammer—using .....	1
House—live .....		Earth—surface .....		Thirsty—drinking .....	
Black—color .....		Trouble—worryment .....		City—acting .....	15
Mutton—meat .....		Soldier—man .....	1	Square—measuring .....	2
Comfort—easy .....		Cabbage—vegetable .....		Butter—food .....	
Hand—body .....		Hard—difficult .....		Doctor—helping .....	2
Short—unlongly .....	4	Eagle—bird .....		Loud—hearing .....	2
Fruit—plants .....		Stomach—body .....		Thief—untrue .....	15
Butterfly—insects .....		Stem—article .....	6	Lion—animal .....	
Smooth—feeling .....		Lamp—article .....	1	Joy—gladness .....	
Command—do .....		Dream—untrue .....	4	Bed—lying .....	
Chair—use .....	1	Yellow—color .....		Heavy—unlightly .....	4
Sweet—taste .....		Bread—food .....		Tobacco—using .....	1
Whistle—act .....		Justice—unfairly .....	2	Baby—borning .....	4
Woman—female .....		Boy—masculine .....		Moon—sending .....	19
Cold—acting .....	2	Light—easy .....		Scissors—using .....	1
Slow—gradually .....	17	Health—sickness .....		Quiet—acting .....	2
Wish—desire .....		Bible—commandments .....		Green—color .....	
River—water .....		Memory—remember .....		Salt—food .....	
White—color .....		Sheep—animal .....		Street—walking .....	
Beautiful—niceness .....	2	Bath—cleanness .....		King—person .....	1
Window—built .....	19	Cottage—country .....		Cheese—food .....	
Rough—treatment .....	17	Swift—quickly .....		Blossom—plant .....	
Citizen—country .....		Blue—color .....		Afraid—frightened .....	
Foot—body .....		Hungry—food .....			
Spider—insect .....		Priest—masculine .....	15		

CASE No. 5878.—A. B. Maniacal attack. 48 individual reactions, of which 18 are classed as normal, 10 are sound reactions (2 sound neologisms), 1 word complement, 8 particles, and 11 unclassified reactions most of which are either obviously normal or “far fetched” but not strictly incoherent.

Table—mahogany .....		Needle—tailor .....		Ocean—Niagara .....	17
Dark—green .....		Red—Herald .....	19	Head—rest .....	
Music—masonic .....	10	Sleep—seven .....	12	Stove—stationary .....	10
Sickness—seasickness .....	10	Anger—Angoria .....	3	Long—poems .....	19
Man—maternity .....	10	Carpet—green .....		Religion—Catholic .....	
Deep—well .....		Girl—eighteen .....	12	Whiskey—Hunter .....	
Soft—silk .....		High—school .....	11	Child—Jesus .....	17
Eating—cleanliness .....	19	Working—ten .....	12	Bitter—gall .....	
Mountain—Gibraltar .....	17	Sour—kraut .....		Hammer—steel .....	
House—bungalow .....		Earth—round .....		Thirsty—water .....	
Black—light .....		Trouble—son .....	19	City—New York .....	
Mutton—lamb .....		Soldier—navy .....		Square—Union .....	
Comfort—linen .....	17	Cabbage—curly .....	19	Butter—sweet .....	
Hand—left .....	17	Hard—stone .....		Doctor—S. .....	17
Short—shorthand .....	10	Eagle—almanac .....	17	Loud—discreet .....	19
Fruit—pears .....		Stomach—stomjack .....	3	Thief—night .....	
Butterfly—canary .....	17	Stem—maple .....	17	Lion—Boatock .....	2
Smooth—linen .....	17	Lamp—New York .....	19	Joy—Joy Line .....	10
Command—pilot .....	17	Dream—husband .....	19	Bed—Ostermoor .....	17
Chair—round .....		Yellow—cards .....	17	Heavy—iron .....	
Sweet—sugar .....		Bread—rye .....		Tobacco—Durham .....	
Whistle—mother .....	19	Justice—liberty .....		Baby—Rose .....	17
Woman—twenty-one .....	12	Boy—Joe .....		Moon—half .....	
Cold—ice .....		Light—white .....	10	Scissors—steel .....	
Slow—music .....		Health—death .....		Quiet—nursing .....	19
Wish—girl .....		Bible—holy .....		Green—grass .....	
River—Hudson .....		Memory—seven .....	12	Salt—rock .....	
White—plaster .....	17	Sheep—lamb .....		Street—Liberty .....	17
Beautiful—nature .....		Bath—cleanliness .....		King—Alphonso .....	
Window—St. Patrick's .....	17	Cottage—gray .....	17	Cheese—Swiss .....	
Rough—blankets .....	19	Swift—ball .....		Blossom—apple .....	
Citizen—twenty-one .....	12	Blue—balloon .....	10	Afraid—dark .....	
Foot—six .....	12	Hungry—yes .....	12		
Spider—fly .....		Priest—doctor .....			

CASE No. 6511.—U. B. Maniacal attack. Persistent use of particles *oh*, *me*, *I*, *none*, etc.

Table—none	6	Needle—pine	17	Ocean—I	5
Dark—red	19	Red—brother	19	Head—home	6
Music—stock	19	Sleep—Adam	19	Stove—home	6
Sickness—rose	19	Anger—I	6	Long—short	6
Man—Frank	17	Carpet—home	6	Religion—none	6
Deep—blue	17	Girl—Agatha	17	Whiskey—none	6
Soft—pillow	12	High—niece	13	Child—Sylvester	17
Eating—no	12	Working—I	6	Bitter—I	6
Mountain—oyster	11	Sour—I	5	Hammer—my	12
House—mercy	19	Earth—I	5	Thirsty—no	6
Black—mother	19	Trouble—I	5	City—no	5
Mutton—me	6	Soldier—father	15	Square—Ben	19
Comfort—home	6	Cabbage—hail	19	Butter—I	6
Hand—mother	15	Hard—me	12	Doctor—I	5
Short—me	6	Eagle—I	6	Loud—bell	6
Fruit—me	5	Stomach—I	5	Thief—iron	19
Butterfly—it	12	Stem—life	6	Lion—I	6
Smooth—oh	12	Lamp—Lambert	10	Joy—I	5
Command—none	6	Dream—I	6	Bed—I	5
Chair—none	5	Yellow—I	5	Heavy—I	5
Sweet—for	12	Bread—I	5	Tobacco—I	5
Whistle—bird	6	Justice—I	5	Baby—I	5
Woman—I	6	Boy—just	13	Moon—will	12
Cold—I	5	Light—picture	19	Scissors—heads	15
Slow—me	6	Health—cook	19	Quiet—nerves	19
Wish—none	2	Bible—beads	17	Green—I	6
River—are	12	Memory—Dick	19	Salt—I	5
White—wife	10	Sheep—to	12	Street—Peter	17
Beautiful—Alma	17	Bath—none	6	King—I	6
Window—Stephen	19	Cottage—home	6	Cheese—I	5
Rough—Rudolphia	10	Swift—lazy	19	Blossom—I	5
Citizen—father	17	Blue—Neil	19	Afraid—no	5
Foot—Anthon	19	Hungry—I	6		
Spider—reverend	19	Priest—I	5		

CASE No. 4427.—A. R. Maniacal attack. Unusual number of doubtful reactions; 46 individual reactions of which 9 are classed as normal; 29 are unclassified, some seemingly incoherent.

Table—Chicago	19	Needle—canoe	19	Ocean—ships	6
Dark—Montreal	18	Red—refreshments	10	Head—intelligence	6
Music—Mississippi	18	Sleep—restfulness	2	Stove—woods	2
Sickness—flowers	19	Anger—usefulness	9	Long—trains	2
Man—ocean	19	Carpet—coach	19	Religion—godliness	2
Deep—medicines	19	Girl—finery	19	Whiskey—drunkenness	2
Soft—accidental	19	High—fortifications	19	Child—joyfulness	2
Eating—vaccination	19	Working—materials	19	Bitter—olives	6
Mountain—evergreens	17	Sour—pickles	2	Hammer—nuts	6
House—caves	19	Earth—gravitation	2	Thirsty—water	6
Black—station	19	Trouble—graphophone	19	City—shopping	6
Mutton—operations	19	Soldier—guns	6	Square—monuments	2
Comfort—money	6	Cabbage—children	19	Butter—crackers	17
Hand—bandages	10	Hard—inheritance	19	Doctor—medicines	6
Short—soldiers	19	Eagle—feathers	6	Loud—music	6
Fruit—dictionary	19	Stomach—envelope	19	Thief—detectives	2
Butterfly—storehouse	19	Stem—roots	6	Lion—cages	2
Smooth—vegetables	18	Lamp—oil	6	Joy—home	2
Command—Bible	6	Dream—fairies	17	Bed—restfulness	2
Chair—histories	14	Yellow—lemons	2	Heavy—expressage	17
Sweet—farewells	19	Bread—jams	17	Tobacco—cigars	6
Whistle—ammunition	19	Justice—repentance	17	Baby—carriage	6
Woman—foreign	19	Boy—clothes	6	Moon—light	6
Cold—armory	19	Light—lanterns	17	Scissors—goods	6
Slow—St. Petersburg	19	Health—joys	2	Quiet—peacefulness	6
Wish—wealth	6	Bible—heaven	6	Green—vegetables	6
River—revenue	10	Memory—head	6	Salt—water	6
White—purity	6	Sheep—pastures	6	Street—stones	6
Beautiful—colonial	19	Bath—cleanliness	6	King—crown	6
Window—shutters	6	Cottage—home	6	Cheese—knife	6
Rough—planes	2	Swift—rapids	2	Blossom—plants	2
Citizen—naturalization	6	Blue—truth	6	Afraid—enemies	17
Foot—carriage	19	Hungry—appetite	6		
Spider—remedies	19	Priest—saintliness	17		

CASE No. 6457.—C. G. Depressive attack. 36 individual reactions of which 9 are classed as normal and 20 as unclassified; among the latter several seem to be incoherent.

Table—fish .....	17	Needle—sewing .....		Ocean—briny .....	19
Dark—boat .....		Red—man .....	9	Head—hard .....	
Music—water .....	18	Sleep—pond .....	19	Stove—black .....	
Sickness—tank .....	18	Anger—hatred .....		Long—grass .....	
Man—horse .....		Carpet—tacks .....		Religion—thinking .....	1
Deep—ocean .....		Girl—floor .....	13	Whiskey—Kentucky .....	
Soft—egg .....		High—mountain .....		Child—carriage .....	
Eating—beans .....	17	Working—dog .....	19	Bitter—pickles .....	
Mountain—grass .....		Sour—milk .....		Hammer—nails .....	
House—roof .....		Earth—mud .....		Thirsty—wanting .....	
Black—bath .....	10	Trouble—radiator .....	19	City—New York .....	
Mutton—butcher .....		Soldier—cannon .....		Square—base .....	17
Comfort—cigar .....	17	Cabbage—vegetable .....		Butter—cow .....	
Hand—shoes .....	19	Hard—wood .....		Doctor—carriage .....	
Short—baseball .....	19	Eagle—quick .....	19	Loud—hall .....	19
Fruit—orange .....		Stomach—flesh .....		Thief—prison .....	
Butterfly—elephant .....	19	Stem—pipe .....		Lion—cage .....	
Smooth—glass .....		Lamp—burn .....		Joy—automobile .....	
Command—general .....		Dream—thinking .....	1	Bed—iron .....	
Chair—kitchen .....	17	Yellow—mice .....	19	Heavy—lead .....	
Sweet—cake .....	17	Bread—baker .....		Tobacco—weed .....	
Whistle—bird .....		Justice—equality .....		Baby—rockers .....	
Woman—door .....	19	Boy—young .....		Moon—sky .....	
Cold—ice .....		Light—green .....	17	Scissors—laundry .....	19
Slow—cat .....	19	Health—art .....	19	Quiet—peaceful .....	
Wish—bed .....	19	Bible—preacher .....		Green—engine .....	19
River—trout .....	17	Memory—return .....	19	Salt—grocer .....	19
White—paint .....		Sheep—fold .....		Street—Lincoln .....	17
Beautiful—monkey .....	19	Bath—water .....		King—Spain .....	
Window—bars .....		Cottage—house .....		Cheese—baker .....	19
Rough—rowdy .....		Swift—fleeing .....	2	Blossom—flower .....	
Citizen—policeman .....		Blue—dark .....		Afraid—going .....	2
Foot—fine .....	9	Hungry—thirst .....			
Spider—insect .....		Priest—elephant .....	15		

#### INVOLUTIONAL MELANCHOLIA; ALCOHOLIC DEMENTIA; SENILE DEMENTIA.

There are so few cases of these psychoses in our series that we can say but little concerning their associational disorders.

In Table V. we show all the types of reactions given by each subject.

We have not observed in our cases of *involutional melancholia* any undue tendency to give individual reactions. The records are either perfectly normal or slightly abnormal in that they show an increase of the non-specific (common) reactions. In this respect they resemble strongly the records obtained from some cases of manic-depressive insanity. This similarity is of interest in connection with other evidence, recently brought to light,<sup>1</sup> showing that involutional melancholia is closely related to manic-depressive insanity, if not identical with it.

<sup>1</sup>G. L. Dreyfus. Die Melancholie ein Zustandsbild des manisch-depressiven Irreseins. 1907.



TABLE V.

TYPES OF REACTION.	Involuntional Melancholia.							Alcoholic Dementia.						Senile Dementia.				
	Case No. 6207.	Case No. 4818.	Case No. 6719.	Case No. 6480.	Case No. 6868.	Case No. 6077.	Case No. 4812.	Case No. 6635.	Case No. 6298.	Case No. 6369.	Case No. 6967.	Case No. 6469.	Case No. 01009.	Case No. 6418.	Case No. 6471.	Case No. 6637.	Case No. 6633.	Case No. 6788.
<i>Common reactions:</i>	86	92	79	92	83	86	83	78	90	79	75	77	80	46	72	71	82	77
Specific reactions.....	13	2	12	1	9	4	6	6	8	11	10	8	3	8	16	8	..	3
Non-specific reactions .....	1	2	4	1	1	2	2	3	1	2	5	3	3	7	..	6	..	..
<i>Doubtful reactions.</i> .....																		
<i>Individual reactions:</i>																		
Normal reactions.....		2	1	4	..	3	1	6	5	4	3	4	3	14	2	4	8	3
Derivatives of stimulus words .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	1	..
Non specific reactions .....	..	..	..	1	..	1	1	..	..	..	..	..	..	..	1	2	..	..
Sound reactions (words) .....	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sound reactions (neologisms).....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Word complements .....	..	..	..	..	..	..	1	1	..	..	..	..	..	5	1	2	..	1
Particles of speech .....	..	..	..	..	1	..	1	1	..	..	2	..	..	..	..	1	..	3
Association to preceding stimulus .....	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1
Repetition of preceding reaction .....	..	..	..	..	..	..	1	..	..	..	..	..	1	..	..	..	..	1
Repetition of preceding stimulus .....	..	..	..	1	..	..	1	..	..	..	..	..	..	1	..	..	..	2
Repetition of preceding reaction .....	..	..	..	..	1	..	1	..	1	..	..	..	2	1	2	3	1	3
Reaction repeated five times .....	..	..	..	..	4	..	1	..	..	2	2	4	..	4	..	..	..	3
Neologisms without sound relation.....	..	..	..	..	1	3	1	6	..	2	3	4	8	14	6	2	8	5
Unclassified.....	..	2	4	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..
Total individual reactions.....	0	4	5	6	7	8	9	13	6	8	10	12	14	39	12	15	18	20

## CASE No. 4818.—S. M. Normal record.

Table—wood .....	Needle—instrument .....	Ocean—water .....
Dark—black .....	Red—color .....	Head—body .....
Music—noise .....	Sleep—repose .....	Stove—fire .....
Sickness—illness .....	Anger—temper .....	Long—distance .....
Man—being .....	Carpet—rug .....	Religion—creed .....
Deep—depth .....	Girl—sex .....	Whiskey—liquor .....
Soft—mushy .....	High—elevation .....	Child—infant .....
Eating—devouring .....	Working—employment .....	Bitter—sour .....
Mountain—hill .....	Sour—bitter .....	Hammer—tool .....
House—residence .....	Earth—clay .....	Thirsty—dry .....
Black—color .....	Trouble—anxiety .....	City—town .....
Mutton—meat .....	Soldier—military .....	Square—block .....
Comfort—luxury .....	Cabbage—vegetable .....	Butter—food .....
Hand—body .....	Hard—substance .....	Doctor—physician .....
Short—abrupt .....	Eagle—bird .....	Loud—noisy .....
Fruit—oranges .....	Stomach—body .....	Thief—burglar .....
Butterfly—insect .....	Stem—flower .....	Lion—animal .....
Smooth—even .....	Lamp—light .....	Joy—happiness .....
Command—order .....	Dream—imagination .....	Bed—cot .....
Chair—article .....	Yellow—color .....	Heavy—weight .....
Sweet—taste .....	Bread—wheat .....	Tobacco—weed .....
Whistle—noise .....	Justice—credit .....	Baby—infant .....
Woman—sex .....	Boy—child .....	Moon—light .....
Cold—temperature .....	Light—sun .....	Scissors—instrument .....
Slow—dull .....	Health—condition .....	Quiet—noiseless .....
Wish—desire .....	Bible—book .....	Green—color .....
River—water .....	Memory—remembrance .....	Salt—seasoning .....
White—color .....	Sheep—lamb .....	Street—block .....
Beautiful—sky .....	Bath—bathing .....	King—ruler .....
Window—glass .....	Cottage—house .....	Cheese—food .....
Rough—uneven .....	Swift—rapid .....	Blossom—flower .....
Citizen—representative .....	Blue—color .....	Afraid—fear .....
Foot—end .....	Hungry—desire .....	
Spider—insect .....	Priest—minister .....	

## CASE No. 6207.—T. S. No individual reactions; 13 non-specific reactions.

Table—furniture .....	Needle—instrument .....	Ocean—water .....
Dark—color .....	Red—color .....	Head—person .....
Music—fiddle .....	Sleep—bed .....	Stove—heat .....
Sickness—bed .....	Anger—irritable .....	Long—length .....
Man—person .....	Carpet—rug .....	Religion—belief .....
Deep—water .....	Girl—person .....	Whiskey—drink .....
Soft—pliable .....	High—elevation .....	Child—person .....
Eating—cake .....	Working—try .....	Bitter—sour .....
Mountain—high .....	Sour—bitter .....	Hammer—tool .....
House—bricks .....	Earth—sand .....	Thirsty—dry .....
Black—color .....	Trouble—anxiety .....	City—place .....
Mutton—meat .....	Soldier—person .....	Square—shape .....
Comfort—easy .....	Cabbage—plant .....	Butter—eat .....
Hand—limb .....	Hard—stone .....	Doctor—physician .....
Short—small .....	Eagle—bird .....	Loud—hear .....
Fruit—vegetable .....	Stomach—person .....	Thief—steal .....
Butterfly—insect .....	Stem—apple .....	Lion—animal .....
Smooth—level .....	Lamp—light .....	Joy—glad .....
Command—control .....	Dream—sleep .....	Bed—sleep .....
Chair—sit .....	Yellow—color .....	Heavy—weight .....
Sweet—nice .....	Bread—flour .....	Tobacco—plant .....
Whistle—noise .....	Justice—equal .....	Baby—child .....
Woman—person .....	Boy—child .....	Moon—light .....
Cold—atmosphere .....	Light—gas .....	Scissors—tool .....
Slow—easy .....	Health—doctor .....	Quiet—rest .....
Wish—something .....	Bible—Scripture .....	Green—color .....
River—stream .....	Memory—thought .....	Salt—spice .....
White—color .....	Sheep—animal .....	Street—place .....
Beautiful—nice .....	Bath—water .....	King—ruler .....
Window—glass .....	Cottage—house .....	Cheese—eat .....
Rough—unpleasant .....	Swift—quick .....	Blossom—flower .....
Citizen—person .....	Blue—color .....	Afraid—hide .....
Foot—limb .....	Hungry—want .....	
Spider—insect .....	Priest—preach .....	

CASE No. 5719.—A. W. S. 5 individual reactions; 12 non-specific reactions.

Table—stand .....	Needle—pointed .....	Ocean—water .....
Dark—color .....	Red—blood .....	Head—brains .....
Music—happy .....	Sleep—rest .....	Stove—heat .....
Sickness—ill .....	Anger—riled .....	Long—measurement .....
Man—human .....	Carpet—covering .....	Religion—good .....
Deep—thought .....	Girl—child .....	Whiskey—alcohol .....
Soft—touch .....	High—air .....	Child—baby .....
Eating—appetite .....	Working—ambitious .....	Bitter—taste .....
Mountain—ground .....	Sour—taste .....	Hammer—knock .....
House—shelter .....	Earth—ground .....	Thirsty—water .....
Black—color .....	Trouble—thought .....	City—New York .....
Mutton—lamb .....	Soldier—command .....	Square—box .....
Comfort—warm .....	Cabbage—vegetable .....	Butter—milk .....
Hand—touch .....	Hard—blow .....	Doctor—help .....
Short—small .....	Eagle—bird .....	Loud—noise .....
Fruit—taste .....	Stomach—body .....	Thief—burglar .....
Butterfly—beauty .....	Stem—pipe .....	Lion—animal .....
Smooth—level .....	Lamp—light .....	Joy—well .....
Command—obey .....	Dream—thought .....	Bed—rest .....
Chair—rest .....	Yellow—purple .....	Heavy—load .....
Sweet—good .....	Bread—food .....	Tobacco—nicotine .....
Whistle—noise .....	Justice—law .....	Baby—joy .....
Woman—female .....	Boy—male .....	Moon—light .....
Cold—chilled .....	Light—lamp .....	Scissors—cutting .....
Slow—move .....	Health—soul .....	Quiet—rest .....
Wish—think .....	Bible—Scriptures .....	Green—color .....
River—water .....	Memory—thought .....	Salt—sand .....
White—color .....	Sheep—lamb .....	Street—crossing .....
Beautiful—nice .....	Bath—cleanness .....	King—ruler .....
Window—glass .....	Cottage—house .....	Cheese—luxury .....
Rough—push .....	Swift—quick .....	Blossom—flower .....
Citizen—man .....	Blue—color .....	Afraid—fright .....
Foot—body .....	Hungry—appetite .....	
Spider—insect .....	Priest—scholar .....	

CASE No. 5635. J. D. 13 individual reactions, of which 6 are classed as normal, 1 particle, 6 unclassified, mostly obviously normal.

Table—eating .....	Needle—sticking .....	Ocean—bathing .....
Dark—night .....	Red—danger .....	Head—mind .....
Music—amusement .....	Sleep—rest .....	Stove—fire .....
Sickness—distress .....	Anger—right .....	Long—hours .....
Man—working .....	Carpet—house .....	Religion—church .....
Deep—sorrow .....	Girl—out .....	Whiskey—drinking .....
Soft—easy .....	High—air .....	Child—home .....
Eating—supper .....	Working—labor .....	Bitter—sour .....
Mountain—pleasure .....	Sour—bitter .....	Hammer—working .....
House—home .....	Earth—ground .....	Thirsty—dry .....
Black—grief .....	Trouble—worry .....	City—New York .....
Mutton—butchers .....	Soldier—man .....	Square—block .....
Comfort—home .....	Cabbage—farmer .....	Butter—cow .....
Hand—shake .....	Hard—bath .....	Doctor—hospital .....
Short—baseball .....	Eagle—birds .....	Loud—speaking .....
Fruit—eating .....	Stomach—body .....	Thief—sentence .....
Butterfly—field .....	Stem—pipe .....	Lion—animal .....
Smooth—soft .....	Lamp—burn .....	Joy—pleasure .....
Command—oblige .....	Dream—thinking .....	Bed—sleeping .....
Chair—seat .....	Yellow—color .....	Heavy—weight .....
Sweet—flowers .....	Bread—eating .....	Tobacco—smoking .....
Whistle—fire .....	Justice—peace .....	Baby—home .....
Woman—home .....	Boy—soldier .....	Moon—night .....
Cold—winter .....	Light—day .....	Scissors—cutting .....
Slow—easy .....	Health—happy .....	Quiet—alone .....
Wish—home .....	Bible—books .....	Green—color .....
River—dock .....	Memory—good .....	Salt—eating .....
White—day .....	Sheep—lamb .....	Street—walking .....
Beautiful—handsome .....	Bath—washing .....	King—William .....
Window—glass .....	Cottage—house .....	Cheese—milk .....
Rough—wagon .....	Swift—quick .....	Blossom—flower .....
Citizen—voter .....	Blue—color .....	Afraid—fright .....
Foot—walking .....	Hungry—eating .....	
Spider—web .....	Priest—church .....	

Our cases of *alcoholic dementia* are clinically without evidences of disturbance of flow of thought. The dementia consists mainly

in impairment or loss of the power of retention, with resulting amnesia for recent occurrences, and temporal disorientation. The records are either normal or show but slight departures from normal.

CASE No. 6369.—J. S. Slight deterioration.

Table—eat .....	Needle—sticking .....19	Ocean—vessels ..... 2
Dark—night .....	Red—color .....	Head—knowledge .....
Music—enjoyment .....	Sleep—happy ..... 1	Stove—burn .....
Sickness—sadness .....	Anger—annoyance .....	Long—time .....
Man—work ..... 1	Carpet—walk .....	Religion—faith .....
Deep—hole .....	Girl—school .....	Whiskey—drink .....
Soft—feathers .....	High—skies .....	Child—infant .....
Eating—appetite .....	Working—labor .....	Bitter—unkind .....17
Mountain—hill .....	Sour—lemon .....	Hammer—nail .....
House—live .....	Earth—walk .....	Thirsty—dry .....
Black—dark .....	Trouble—annoyance .....	City—inhabitants .....
Mutton—eat .....	Soldier—army .....	Square—brick .....
Comfort—pleasant ..... 1	Cabbage—eat .....	Butter—eat .....
Hand—work ..... 1	Hard—stone .....	Doctor—cure .....
Short—story .....	Eagle—fly .....	Loud—noise .....
Fruit—eat .....	Stomach—victuals .....17	Thief—steal .....
Butterfly—annoyance ... 6	Stem—pipe .....	Lion—animal .....
Smooth—iron .....	Lamp—burn .....	Joy—happiness ..... 1
Command—officer .....	Dream—sleep .....	Bed—lay .....
Chair—sit .....	Yellow—orange .....	Heavy—feeling ..... 2
Sweet—nice ..... 1	Bread—eat .....	Tobacco—chew .....
Whistle—pleasure ..... 1	Justice—person ..... 1	Baby—nurse .....
Woman—pleasure ..... 1	Boy—school .....	Moon—bright .....
Cold—annoyance ..... 6	Light—see .....	Scissors—cut .....
Slow—car .....	Health—comfort .....	Quiet—ease .....
Wish—like .....	Bible—read .....	Green—flower .....
River—water .....	Memory—recollection ...	Salt—taste .....
White—sack .....17	Sheep—eat .....	Street—walking .....
Beautiful—house .....17	Bath—cleanness .....	King—control .....19
Window—look .....	Cottage—live .....	Cheese—eat .....
Rough—unpleasant ..... 1	Swift—go .....	Blossom—flower .....
Citizen—man ..... 1	Blue—color .....	Afraid—nervousness ...
Foot—walk .....	Hungry—eat .....	
Spider—annoyance .....	Priest—confession .....	

CASE No. 6418.—J. R. Marked deterioration.

Table—mahogany .....	Needle—darning .....	Ocean—Pacific .....17
Dark—dawn .....17	Red—apples .....	Head—oval .....19
Music—harp .....17	Sleep—plenty .....	Stove—polish .....
Sickness—none ..... 6	Anger—mistake .....17	Long—forever .....12
Man—white .....19	Carpet—floor .....	Religion—Protestant ...
Deep—unfathomable ... 2	Girl—pretty ..... 1	Whiskey—none .....
Soft—silken ..... 2	High—ordinary .....19	Child—none ..... 5
Eating—good ..... 1	Working—eight .....12	Bitter—sweet .....
Mountain—high .....	Sour—nonsense .....19	Hammer—no .....12
House—place .....	Earth—fruits ..... 2	Thirsty—no ..... 5
Black—color .....	Trouble—little .....	City—New York .....
Mutton—cooked .....17	Soldier—patriot .....	Square—compass .....
Comfort—rest .....	Cabbage—garden .....	Butter—sweet .....
Hand—clasp .....19	Hard—wood .....	Doctor—cure .....
Short—small ..... 1	Eagle—high .....	Loud—quietly ..... 2
Fruit—apples .....	Stomach—leave .....19	Thief—jail .....
Butterfly—buttercups ... 2	Stem—stalk .....	Lion—brave .....
Smooth—iron .....	Lamp—kerosene .....	Joy—peacefulness ..... 2
Command—home .....19	Dream—happy ..... 1	Bed—good ..... 1
Chair—ebony .....19	Yellow—aster .....17	Heavy—no .....
Sweet—potatoes .....17	Bread—white .....	Tobacco—yes .....12
Whistle—song .....	Justice—right .....	Baby—none ..... 6
Woman—pretty ..... 1	Boy—white .....15	Moon—shines .....
Cold—depressed .....19	Light—white .....	Scissors—uncut ..... 2
Slow—process .....17	Health—good ..... 1	Quiet—peaceful .....
Wish—home .....	Bible—puzzled .....19	Green—grass .....
River—Mississippi .....	Memory—bad ..... 1	Salt—water .....
White—wings .....17	Sheep—cheviot .....17	Street—Queen .....17
Beautiful—palace .....19	Bath—marble .....17	King—unknown .....19
Window—clear .....	Cottage—story .....17	Cheese—Stilton .....17
Rough—no .....12	Swift—fast .....	Blossom—cherry .....
Citizen—patriot .....	Blue—waist .....17	Afraid—not .....
Foot—heath .....19	Hungry—not ..... 2	
Spider—none ..... 6	Priest—confessor .....	

We reproduce in full the record obtained from one of our cases of *senile dementia*.

CASE No. 5788.—E. S.

Table—cat .....	6	Needle—pin .....		Ocean—river .....	
Dark—night .....		Red—white .....		Head—life .....	
Music—cat .....	2	Sheep—eyes .....		Stove—fire .....	
Sickness—cat .....	5	Anger—mad .....		Long—short .....	
Man—mouse .....	18	Carpet—cloth .....		Religion—Catholic .....	
Deep—well .....		Girl—boy .....		Whiskey—drink .....	
Soft—sack .....	19	High—low .....		Child—boy .....	
Eating—well .....		Working—sawing .....		Bitter—sweet .....	
Mountain—hill .....		Sour—sweet .....		Hammer—noise .....	
House—castle .....		Earth—clay .....		Thirsty—drink .....	
Black—dog .....		Trouble—cold .....	15	City—New York .....	
Mutton—sheep .....		Soldier—man .....	1	Square—Marion .....	17
Comfort—lamb .....	13	Cabbage—spinach .....		Butter—cow .....	
Hand—chicken .....	18	Hard—cut .....	6	Doctor—W. .....	17
Short—light .....	19	Eagle—bird .....		Loud—noise .....	
Fruit—apple .....		Stomach—belly .....		Thief—steals .....	
Butterfly—fly .....		Stem—pike .....	17	Lion—heart .....	
Smooth—iron .....		Lamp—globe .....		Joy—happy .....	1
Command—obey .....		Dream—eyes .....		Bed—mattress .....	
Chair—stool .....		Yellow—flower .....		Heavy—load .....	
Sweet—sugar .....		Bread—flour .....		Tobacco—smoke .....	
Whistle—lump .....	14	Guster—right .....		Baby—boy .....	
Woman—man .....	1	Box—cat .....	6	Moon—shine .....	
Cold—shiver .....		Light—lamp .....		Scissors—cut .....	
Slow—cold .....	7	Health—rough .....	17	Quiet—noisy .....	
Wish—push .....	19	Bible—book .....		Green—color .....	
River—pond .....		Memory—mind .....		Salt—bitter .....	
White—cat .....		Sheep—lamb .....		Street—place .....	
Beautiful—cat .....	5	Bath—water .....		King—rule .....	
Window—glass .....		Cottage—house .....		Cheese—taste .....	
Rough—tight .....	19	Swift—quick .....		Mosses—flower .....	
Citizen—tough .....		Blue—color .....		Afraid—trouble .....	
Foot—shoe .....		Hungry—eat .....			
Spider—clock .....	19	Priest—clergyman .....			

## § 8. PATHOLOGICAL REACTIONS FROM NORMAL SUBJECTS.

Mental disorders do not always so manifest themselves as to incapacitate the subject for his work or to necessitate his sequestration in a hospital for the insane. It is, therefore, not surprising that in applying the association test to over a thousand subjects selected at random we have obtained a small number of test records which show various types of abnormal reactions. Among the subjects who furnished such records some are described as eccentric, taciturn, or dull, while others are apparently normal but come of neuropathic stock. A few of them are persons wholly unknown to us.

We reproduce in full several records from the normal series, containing abnormal reactions.

CONSECUTIVE No. 746.—State hospital attendant. Efficient in his work but is generally regarded to have married very foolishly. Sound reactions; numerous unclassified reactions.

Table—brought	19	Needle—knee	10	Ocean—oar	10
Dark—some	19	Red—roam	19	Head—him	12
Music—leaf	19	Sleep—sorrow	19	Stove—still	10
Sickness—water	19	Anger—August	19	Long—left	15
Man—book	19	Carpet—covered	2	Religion—rest	19
Deep—desk	19	Girl—great	9	Whiskey—whirl	15
Soft—ground	19	High—his	12	Child—charge	19
Eating—bark	19	Working—map	19	Bitter—bought	10
Mountain—tree	19	Sour—slur	10	Hammer—hemp	10
House—paper	19	Earth—eat	19	Thirsty—Thursday	10
Black—light	19	Trouble—through	12	City—salt	10
Mutton—horse	13	Soldier—solder	10	Square—squirrel	10
Comfort—hat	19	Cabbage—cart	19	Butter—bread	19
Hand—sick	13	Hard—him	12	Doctor—daisy	19
Short—swallow	19	Eagle—earth	13	Loud—lark	19
Fruit—mass	19	Stomach—stall	10	Thief—twist	19
Butterfly—leaf	15	Stem—stair	10	Lion—lesson	10
Smooth—wing	13	Lamp—left	19	Joy—jar	19
Command—man	1	Dream—dread	19	Bed—beard	10
Chair—left	19	Yellow—waist	15	Heavy—health	10
Sweet—sick	2	Bread—book	15	Tobacco—toboggan	10
Whistle—whirl	10	Justice—gem	19	Baby—bird	15
Woman—where	12	Boy—bird	19	Moon—mill	19
Cold—coal	19	Light—left	10	Scissors—setters	10
Slow—some	15	Health—heart	17	Quiet—quart	10
Wish—whirl	15	Bible—base	19	Green—great	9
River—rice	19	Memory—moth	19	Salt—sorrow	10
White—waist	19	Sheep—shrill	19	Street—stem	10
Beautiful—brought	15	Bath—bend	19	King—cart	15
Window—women	10	Cottage—cart	10	Cheese—chart	19
Rough—row	19	Swift—swell	10	Blossom—hed	19
Citizen—sir	10	Blue—beard	11	Afraid—frill	10
Foot—fall	19	Hungry—heart	15		
Spider—spice	10	Priest—path	19		

CONSECUTIVE No. 220.—Laundryman in State hospital. Nothing abnormal has ever been observed in his case. Numerous perseverations.

Table—house	19	Needle—thread	19	Ocean—rice	19
Dark—range	19	Red—spool	18	Head—eyes	19
Music—cats	19	Sleep—machine	18	Stove—nose	18
Sickness—dog	18	Anger—picture	19	Long—mouth	18
Man—barn	19	Carpet—bed	17	Religion—legs	18
Deep—hollow	19	Girl—bureau	18	Whiskey—arms	18
Soft—apple	19	High—oilcloth	18	Child—elbows	18
Eating—cranberry	17	Working—pen	19	Bitter—day	19
Mountain—water	17	Sour—ink	18	Hammer—nails	19
House—pig	19	Earth—paper	18	Thirsty—saw	13
Black—rats	18	Trouble—chair	19	City—plane	18
Mutton—mice	2	Soldier—table	14	Square—chisel	18
Comfort—sheep	13	Cabbage—beet	19	Butter—file	18
Hand—lamb	14	Hard—cauliflower	18	Doctor—duck	10
Short—birds	19	Eagle—potatoes	18	Loud—goose	18
Fruit—peach	19	Stomach—beans	17	Thief—robber	19
Butterfly—pears	18	Stem—plum	17	Lion—tiger	19
Smooth—grapes	18	Lamp—wick	19	Joy—bear	13
Command—nut	18	Dream—oil	13	Bed—leopard	18
Chair—bureau	19	Yellow—stick	19	Heavy—tiger	15
Sweet—broom	19	Bread—stone	18	Tobacco—smoke	19
Whistle—violin	10	Justice—dirt	18	Baby—pipe	18
Woman—man	1	Boy—street	19	Moon—star	19
Cold—child	10	Light—match	19	Scissors—sharp	19
Slow—infant	14	Health—sickness	19	Quiet—noisy	19
Wish—night	19	Bible—book	19	Green—blue	19
River—dark	14	Memory—leaf	18	Salt—yellow	13
White—steamboat	17	Sheep—wool	19	Street—green	14
Beautiful—tugboat	18	Bath—water	19	King—purple	14
Window—yacht	18	Cottage—people	1	Cheese—axe	19
Rough—ferry	18	Swift—fast	19	Blossom—handle	19
Citizen—water	18	Blue—residence	19	Afraid—barn	19
Foot—egg	19	Hungry—beef	17		
Spider—fly	19	Priest—clergyman	19		

CONSECUTIVE No. 255.—State hospital attendant. Efficient, but unusually taciturn and seclusive. Sound reactions.

Table—linen .....	Needle—work .....	1	Ocean—apple .....	19
Dark—sunshine .....	Red—robe .....	19	Head—heart .....	10
Music—song .....	Sleep—soap .....	10	Stove—strap .....	10
Sickness—Saturday .....	Anger—angel .....	19	Long—love .....	15
Man—manager .....	Carpet—carriage .....	19	Religion—belief .....	10
Deep—dark .....	Girl—guide .....	19	Whiskey—whisk broom .....	10
Soft—sorrowful .....	High—heart .....	10	Child—chap .....	10
Eating—eighty .....	Working—worthy .....	10	Bitter—butter .....	10
Mountain—miner .....	Sour—satchel .....	19	Hammer—habit .....	19
House—heart .....	Earth—early .....	10	Thirsty—thirty .....	10
Black—blue .....	Trouble—trout .....	19	City—soap .....	15
Mutton—mountain .....	Soldier—socket .....	19	Square—squirrel .....	10
Comfort—company .....	Cabbage—currant .....	17	Butter—bank .....	19
Hand—happy .....	Hard—harmful .....	10	Doctor—dentist .....	
Short—slow .....	Eagle—early .....	15	Loud—laugh .....	
Butterfly—butter .....	Stomach—stable .....	10	Thief—thump .....	19
Smooth—smoke .....	Stem—stand .....	10	Lion—lump .....	19
Command—company .....	Lamp—light .....		Joy—jump .....	19
Chair—chap .....	Dream—drunk .....	10	Bed—bank .....	15
Sweet—slow .....	Yellow—lustre .....	19	Heavy—happy .....	10
Whistle—whip .....	Bread—brand .....	10	Tobacco—tub .....	19
Woman—worried .....	Justice—judgment .....		Baby—bundle .....	
Cold—cow .....	Boy—butter .....	15	Moon—mantle .....	10
Slow—slap .....	Light—love .....	19	Scissors—Saturday .....	15
Wish—water .....	Health—help .....	10	Quiet—quarter .....	10
River—rubbed .....	Bible—book .....		Green—drought .....	19
White—wash .....	Memory—mental .....		Salt—Saturday .....	10
Beautiful—bounty .....	Sheep—shop .....	10	Street—straight .....	
Window—light .....	Bath—bandage .....	10	King—cattle .....	19
Rough—rognish .....	Cottage—cot .....	10	Cheese—captain .....	19
Citizen—sight-seeing .....	Swift—swan .....	10	Blossom—bandage .....	15
Foot—fool .....	Blue—black .....	10	Afraid—flattered .....	10
Spider—span .....	Hungry—height .....	19		
	Priest—house .....			

CONSECUTIVE No. 442.—Nothing abnormal has ever been suspected in the case of this subject; mother eccentric; sister insane. Sound reactions.

Table—stable .....	Needle—needleless .....	10	Ocean—over .....	12
Dark—dreary .....	Red—color .....		Head—large .....	1
Music—joy .....	Sleep—sleet .....	10	Stove—stone .....	10
Sickness—silliness .....	Anger—rough .....		Long—heavy .....	19
Man—manner .....	Carpet—carpenter .....	10	Religion—goodness .....	1
Deep—dreary .....	Girl—going .....	19	Whiskey—strong .....	
Soft—sooth .....	High—air .....		Child—small .....	1
Eating—evening .....	Working—tolling .....		Bitter—butter .....	10
Mountain—morning .....	Sour—shower .....	10	Hammer—hard .....	
House—help .....	Earth—eating .....	19	Thirsty—thrifty .....	10
Black—dark .....	Trouble—loneliness .....	17	City—seeing .....	10
Mutton—mitten .....	Soldier—solid .....	10	Square—squirrel .....	10
Comfort—come .....	Cabbage—carrying .....	19	Butter—bitter .....	10
Hand—handsome .....	Hard—hardly .....	8	Doctor—dark .....	10
Short—small .....	Eagle—eating .....	10	Loud—noisy .....	
Fruit—first .....	Stomach—starch .....	10	Thief—stealing .....	
Butterfly—butter .....	Stem—step .....	2	Lion—eating .....	
Smooth—sooth .....	Lamp—glass .....		Joy—joyous .....	8
Command—come .....	Dream—dreary .....		Bed—sleep .....	
Chair—air .....	Yellow—yonder .....	12	Heavy—weightful .....	4
Sweet—good .....	Bread—bed .....	10	Tobacco—cocoa .....	10
Whistle—music .....	Justice—juice .....	10	Baby—boys .....	2
Woman—wonder .....	Boy—hall .....		Moon—moo .....	3
Cold—freezing .....	Light—likeness .....	10	Scissors—successors .....	10
Slow—snow .....	Health—help .....	10	Quiet—easy .....	
Wish—wind .....	Bible—book .....		Green—grass .....	
River—riffle .....	Memory—memorial .....	2	Salt—simmer .....	19
White—wait .....	Sheep—sleep .....		Street—steep .....	10
Beautiful—handsome .....	Bath—battle .....	10	King—kingdom .....	
Window—light .....	Cottage—cotton .....	10	Cheese—squeeze .....	10
Rough—harsh .....	Swift—fast .....		Blossom—blooming .....	
Citizen—city .....	Blue—blind .....	10	Afraid—Africa .....	10
Foot—walk .....	Hungry—hurry .....	10		
Spider—creep .....	Priest—prince .....	10		

CONSECUTIVE No. 314.—School teacher. Efficient; described as very silent. Unclassified reactions, due mostly to distraction.

Table—cat .....	19	Needle—good .....	9	Ocean—boat .....	
Dark—no .....	12	Red—bad .....	9	Head—hat .....	
Music—will .....	19	Sleep—hinge .....	19	Stove—ashes .....	17
Sickness—chair .....	19	Anger—will .....	15	Long—short .....	
Man—table .....	6	Carpet—paper .....	6	Religion—peace .....	
Deep—floor .....	14	Girl—chair .....	15	Whiskey—bottle .....	
Soft—paper .....	6	High—table .....	6	Child—dress .....	
Eating—wood .....	19	Working—cane .....	15	Bitter—sour .....	
Mountain—chair .....	15	Sour—floor .....	15	Hammer—teeth .....	19
House—window .....		Earth—ceiling .....	18	Thirsty—dry .....	
Black—wall .....		Trouble—chain .....	19	City—good .....	1
Mutton—skv .....	19	Soldier—desk .....	19	Square—wood .....	
Comfort—air .....	18	Cabbage—paper .....		Butter—best .....	10
Hand—table .....		Hard—table .....		Doctor—shoes .....	19
Short—paper .....	6	Eagle—flower .....	15	Loud—music .....	
Fruit—sweeping .....	19	Stomach—match .....	19	Thief—notes .....	2
Butterfly—room .....	18	Stem—match .....		Lion—strings .....	19
Smooth—working .....	2	Lamp—table .....		Joy—happy .....	1
Command—stone .....	19	Dream—chair .....	14	Bed—wish .....	13
Chair—machine .....	19	Yellow—cane .....	18	Heavy—lead .....	
Sweet—radiator .....	19	Bread—flour .....		Tobacco—plant .....	
Whistle—clock .....	19	Justice—peace .....		Baby—good .....	1
Woman—cane .....	19	Boy—window .....	15	Moon—paper .....	6
Cold—flower .....	19	Light—wall .....	18	Scissors—straw .....	19
Slow—cord .....	19	Health—floor .....	18	Outlet—hoop .....	19
Wish—marriage .....	2	Bible—house .....	18	Green—rope .....	19
River—chimney .....	19	Memory—paper .....	6	Salt—dish .....	
White—wheel .....	19	Sheep—dress .....	19	Street—dirt .....	
Beautiful—cane .....	15	Bath—clothes .....	18	King—bucket .....	19
Window—pot .....	19	Cottage—earth .....	19	Cheese—plate .....	
Rough—grass .....	19	Swift—sky .....	18	Blossom—plant .....	
Citizen—paper .....		Blue—trees .....	19	Afraid—sweeping .....	15
Foot—closet .....	19	Hungry—leaves .....	18		
Spider—awning .....	19	Priest—bark .....	18		

CONSECUTIVE No. 216.—State hospital attendant. Incompetent, dull. Numerous non-specific reactions.

Table—rolling .....	19	Needle—small .....	1	Ocean—wide .....	
Dark—swim .....	19	Red—dark .....		Head—large .....	1
Music—playing .....		Sleep—easy .....		Stove—black .....	
Sickness—riding .....	19	Anger—bad .....	1	Long—wide .....	
Man—walk .....		Carpet—small .....	1	Religion—good .....	1
Deep—singing .....	19	Girl—short .....	15	Whiskey—strong .....	
Soft—light .....		High—long .....		Child—small .....	1
Eating—sleep .....		Working—good .....	1	Bitter—bad .....	1
Mountain—low .....		Sour—bad .....	1	Hammer—small .....	1
House—small .....	1	Earth—large .....	1	Thirsty—bad .....	1
Black—dark .....		Trouble—bad .....	1	City—big .....	
Mutton—lean .....	19	Soldier—good .....	1	Square—long .....	
Comfort—good .....	1	Cabbage—small .....	6	Butter—good .....	1
Hand—small .....	1	Hard—apples .....	1	Doctor—good .....	1
Short—small .....	1	Eagle—small .....	6	Loud—hearty .....	19
Fruit—taste .....		Stomach—good .....	1	Thief—bad .....	1
Butterfly—beautiful .....	1	Stem—short .....		Lion—bad .....	5
Smooth—long .....	6	Lamp—bright .....		Joy—happy .....	1
Command—immediate .....	2	Dream—good .....	1	Bed—easy .....	
Chair—small .....	6	Yellow—light .....		Heavy—stone .....	
Sweet—clear .....	19	Bread—good .....	1	Tobacco—strong .....	
Whistle—long .....		Justice—good .....	1	Baby—small .....	1
Woman—small .....	1	Boy—small .....	1	Moon—large .....	1
Cold—long .....	6	Light—clear .....		Scissors—sharp .....	
Slow—write .....	2	Health—good .....	1	Quiet—baby .....	
Wish—quick .....	10	Bible—true .....		Green—dark .....	
River—long .....		Memory—good .....	1	Salt—strong .....	10
White—clean .....		Sheep—many .....		Street—wide .....	
Beautiful—nice .....	1	Bath—good .....	1	King—high .....	
Window—big .....	19	Cottage—large .....	1	Cheese—good .....	1
Rough—bad .....	1	Swift—fast .....		Blossom—apples .....	
Citizen—short .....	19	Blue—dark .....		Afraid—he .....	12
Foot—small .....	1	Hungry—long .....	6		
Spider—small .....	1	Priest—true .....	19		



## CONSECUTIVE No. 318.—School boy. Non-specific reactions.

Table-board .....	Needle-sharp .....	Ocean-high .....
Dark-night .....	Red-crimson .....	Head-little .....
Music-sound .....	Sleep-wake .....	Stove-hot .....
Sickness-pleasantness .. 9	Anger-mad .....	Long-distance .....
Man-people .....	Carpet-floor .....	Religion-good .....
Deep-river .....	Girl-good .....	Whiskey-had .....
Soft-cat .....	High-tall .....	Child-cute .....
Eating-pleasantness .. 1	Working-sleep .....	Bitter-good .....
Mountain-high .....	Sour-bad .....	Hammer-hard .....
House-home .....	Earth-ground .....	Thirsty-hard .....
Black-dark .....	Trouble-bad .....	City-good .....
Mutton-good .....	Soldier-good .....	Square-round .....
Comfort-pleasure .. 1	Cabbage-had .....	Butter-soft .....
Hand-foot .....	Hard-soft .....	Doctor-good .....
Short-little .....	Eagle-bird .....	Loud-noisy .....
Fruit-good .....	Stomach-ache .....	Thief-good .....
Butterfly-pretty .. 1	Stem-slender .....	Lion-big .....
Smooth-soft .....	Lamp-light .....	Joy-good .....
Command-go .....	Dream-good .....	Bed-comfortable .....
Chair-sit .....	Yellow-pretty .....	Heavy-light .....
Sweet-good .....	Bread-good .....	Tobacco-had .....
Whistle-noise .....	Justice-good .....	Baby-pretty .....
Woman-pretty .....	Boy-fun .....	Moon-cute .....
Cold-had .....	Light-see .....	Sadness-sharp .....
Slow-quick .....	Health-happiness .....	Quiet-loud .....
Wish-good .....	Bible-good .....	Green-pretty .....
River-deep .....	Memory-good .....	Salt-good .....
White-snow .....	Sheep-pretty .....	Street-narrow .....
Beautiful-pretty .. 1	Bath-good .....	King-good .....
Window-look .....	Cottage-pretty .....	Cheese-good .....
Rough-even .....	Swift-quick .....	Blossom-pretty .....
Citizen-good .....	Blue-yellow .....	Afraid-scared .....
Foot-hand .....	Hungry-eat .....	
Spider-bite .....	Priest-good .....	

## CONSECUTIVE No. 234.—School boy. Non-specific reactions.

Table-chair .....	Needle-thick .....	Ocean-water .....
Dark-cold .....	Red-cow .....	Head-large .....
Music-sweet .....	Sleep-dreams .....	Stove-fire .....
Sickness-hard .....	Anger-very .....	Long-snake .....
Man-wise .....	Carpet-pretty .....	Religion-Jesus .....
Deep-dark .....	Girl-small .....	Whiskey-temperance ..
Soft-sweet .....	High-tree .....	Child-healthy .....
Eating-drinking .....	Working-hard .....	Bitter-apple .....
Mountain-snow .....	Sour-bitter .....	Hammer-nail .....
House-great .....	Earth-great .....	Thirsty-water .....
Black-horse .....	Trouble-hard .....	City-houses .....
Mutton-good .....	Soldier-brave .....	Square-desk .....
Comfort-health .....	Cabbage-good .....	Butter-yellow .....
Hand-foot .....	Hard-stone .....	Doctor-medicine .....
Short-fat .....	Eagle-great .....	Loud-haugh .....
Fruit-good .....	Stomach-weak .....	Thief-wicked .....
Butterfly-pretty .. 1	Stem-watch .....	Lion-fierce .....
Smooth-hard .....	Lamp-pretty .....	Joy-happiness .....
Command-general .....	Dream-sweet .....	Bed-rest .....
Chair-soft .....	Yellow-buttercup .....	Heavy-tone .....
Sweet-good .....	Bread-flour .....	Tobacco-dirty .....
Whistle-loud .....	Justice-man .....	Baby-small .....
Woman-large .....	Boy-gun .....	Moon-sky .....
Cold-dreary .....	Light-bright .....	Sadness-sharp .....
Slow-hard .....	Health-care .....	Quiet-lonely .....
Wish-fairy .....	Bible-holy .....	Green-sour .....
River-large .....	Memory-poor .....	Salt-cows .....
White-snow .....	Sheep-pretty .....	Street-people .....
Beautiful-woman .. 1	Bath-nice .....	King-rich .....
Window-large .....	Cottage-low .....	Cheese-yellow .....
Rough-hard .....	Swift-stream .....	Blossom-pretty .....
Citizen-good .....	Blue-bluebird .....	Afraid-fear .....
Foot-small .....	Hungry-tired .....	
Spider-ugly .....	Priest-church .....	

CONSECUTIVE No. 809.—Lawyer. 28 individual reactions, of which 14 are classed as normal; 10 are unclassified, most of which are also obviously normal.

Table—chair .....	Needle—tailor .....	Priest—surplice .....
Dark—candle .....	Red—flannel .....	Ocean—ship .....
Music—girl .....	Sleep—	Head—hair .....
Sickness—doctor .....	potassium bromide. 17	Stove—shovel .....
Man—woman .....	Anger—teacher .....	Long—pole .....
Deep—swimming .....	Carpet—tack .....	Religion—Abraham .....
Soft—hand .....	Girl—belt .....	Whiskey—Kentucky .....
Eating—Reisenweber .....	High—pole .....	Child—baby .....
Mountain—Kipling .....	Working—laborer .....	Bitter—pepper .....
House—mortgage .....	Sour—apple .....	Hammer—nail .....
Black—spectrum .....	Earth—Columbus .....	Thirsty—lemonade .....
Mutton—pig .....	Trouble—lawyer .....	City—Manhattan .....
Comfort—chair .....	Soldier—gun .....	Square—Washington .....
Hand—ring .....	Cabbage—plantation .....	Butter—salt .....
Short—tall .....	Hard—brick .....	Doctor—nurse .....
Fruit—banana .....	Eagle—feathers .....	Loud—hammer .....
Butterfly—color .....	Stomach—juice .....	Thief—jewelry .....
Smooth—sphere .....	Stem—leaf .....	Lion—Androcles .....
Command—soldier .....	Lamp—light .....	Joy—automobile .....
Chair—teacher .....	Dream—pillow .....	Bed—shoes .....
Sweet—apple .....	Yellow—lemon .....	Heavy—Flannigan .....
Whistle—policeman .....	Bread—crust .....	Tobacco—pipe .....
Woman—hat .....	Justice—judge .....	Baby—wife .....
Cold—thermometer .....	Boy—panta .....	Moon—man .....
Slow—invalid .....	Light—gas .....	Scissors—cut .....
Wish—million .....	Health—medicine .....	Quiet—demure .....
River—Hudson .....	Bible—Jacob .....	Green—eyes .....
White—Broadway .....	Memory—brain .....	Salt—cellar .....
Beautiful—girl .....	Sheep—wool .....	Street—Wall .....
Window—school .....	Bath—soap .....	King—Edward .....
Rough—ball .....	Cottage—rod .....	Cheese—Roquefort .....
Citizen—justice .....	Swift—ball .....	Blossom—field .....
Foot—shoe .....	Blue—sky .....	Afraid—burglar .....
Spider—insect .....	Hungry—I .....	

### § 9. NUMBER OF DIFFERENT WORDS GIVEN AS REACTIONS.

It has been suggested by Fuhrmann<sup>1</sup> that the number of different words given in response to one hundred selected stimulus words may be used as “a fairly reliable measure of the intelligence and degree of education of a patient.” The test according to Fuhrmann is applied twice in every case, the interval between the two sittings being at least four weeks. “In very intelligent and well educated persons every 100 stimulus words almost always evokes in the first test 95—100 different associations; in the less intelligent and in the feeble-minded the same associations are more frequently repeated. In the second test with the same stimulus words—which is really much more important than the first, since even persons of inferior intelligence may reach higher numbers in the first test—the difference in the wealth of the stock of representations becomes plainly evident:

<sup>1</sup> Diagnostik und Prognostik der Geisteskrankheiten, p. 93. Leipzig, 1903.

the man of intelligence will not need to draw on the associations which he gave in the first test, but will produce new ones; the feeble-minded subject will, on the contrary, repeat to a greater or lesser extent the associations of the first test." "In general the associational capacity of an adult person may be taken to be from 80 per cent to 90 per cent. Should the number sink below 70 per cent the suspicion of a pathological condition must then arise; and the higher the subject's degree of education the stronger is this suspicion. In the case of an associational capacity of 60 per cent or less no doubt of its pathological significance can remain any longer."

Our results are not strictly comparable with Fuhrmann's, because we have obtained but one test record from each subject; it may be said, however, that the results of a single test in each case do not show any considerable differences, corresponding to education or age, in the variety of responses. Further, dementing psychoses, with the exception of epilepsy, show on the whole no diminution in the number of different reactions, although in individual cases this number falls considerably below the general average; and in such cases the diminution may be dependent upon stereotypy or perseveration, and not necessarily upon reduction in the stock of representations.

It would appear from our results that pathological mental states are apt to manifest themselves by a tendency to give reactions belonging to types of inferior values rather than by diminished variety of responses.

We show in Table VI. the numbers of different responses given by our groups of normal and insane subjects, expressed in figures giving for each group the median and the average.

TABLE VI.

	Med.	Av.
86 normal subjects, common school education; records containing not over 10 individual reactions .....	85	84.5
66 normal subjects, collegiate education; records containing not over 10 individual reactions .....	87	86.5
48 normal subjects, school children; records containing not over 10 individual reactions .....	87	84.9
53 normal subjects; records containing not under 15 individual reactions...	90	88.7
108 cases of dementia præcox .....	87	84.1
33 cases of paranoic conditions.....	89	86.5
24 cases of epilepsy.....	78½	75.8
32 cases of general paresis.....	84½	82.1
32 cases of manic-depressive insanity.....	87	85.1

### § 10. CO-OPERATION OF THE SUBJECT.

In our work with insane subjects we encountered many cases in which we were unable to obtain satisfactory test records owing to lack of proper co-operation. Some subjects seemed to be either too confused or too demented to be capable of understanding and following the instructions given them. Others were for one reason or another unwilling to co-operate. It is important to distinguish inability from unwillingness to co-operate, since the former indicates in itself an abnormal state of the mind, while the latter is quite often shown by normal persons.

A subject may co-operate to the extent of giving a single word in response to each stimulus word, and yet fail to co-operate in some other particulars.

He may, instead of giving the first word suggested to him by the stimulus, suppress the first word more or less systematically, and give some other word which may seem to him more appropriate. This probably occurs very often, but does not seem to render the results less serviceable for our purpose.

Further, a subject may react by words related not to the stimulus words, but to each other, thus simulating perseveration; or he may react by naming objects within reach of the senses, thus appearing to be distracted; or he may give only sound reactions.

There is, in fact, no type of pathological reactions which a normal person may not be able to produce more or less readily at will, though in the case of incoherent reactions considerable mental effort may be required, and the end may be attained only by regularly rejecting the first and some subsequent words which are suggested by the stimulus.

In view of these considerations we are led to conclude that the association test, as applied by our method, could not be relied upon as a means of detecting simulation of insanity in malingerers, criminals, and the like.

### § 11. SUMMARY.

The normal range of reaction in response to any of our stimulus words is largely confined within narrow limits.

The frequency tables compiled from test records given by one thousand normal subjects comprise over ninety per cent of the normal range in the average case.

With the aid of the frequency tables and the appendix normal reactions, with a very few exceptions, can be sharply distinguished from pathological ones.

The separation of pathological reactions from normal ones simplifies the task of their analysis, and makes possible the application of a classification based on objective criteria.

By the application of the association test, according to the method here proposed, no sharp distinction can be drawn between mental health and mental disease; a large collection of material shows a gradual and not an abrupt transition from the normal state to pathological states.

In dementia præcox, some paranoic conditions, manic-depressive insanity, general paresis, and epileptic dementia the test reveals some characteristic, though not pathognomonic, associational tendencies.

#### ACKNOWLEDGMENTS.

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33. Foot .....	93	131
16. Fruit .....	84	129
40. Girl .....	96	132
94. Green .....	123	142
77. Hammer .....	115	139
14. Hand .....	83	128
48. Hard .....	100	134
70. Head .....	111	138
59. Health .....	106	136
88. Heavy .....	120	141
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26. Wish .....	89	130
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## THE FREQUENCY TABLES.

## 1. TABLE

1 accommodation	2 dine	1 kitchen	1 operating	1 stable
3 article	4 dining		2 ornament	36 stand
1 articles	26 dinner	1 lamp		3 stool
	5 dish	4 large	1 parlor	1 straight
1 basket	40 dishes	1 leaf	1 pitcher	1 strong
9 bench	1 dissection	1 leaves	4 plate	1 supper
14 board	1 dog	1 library	1 plates	
7 book		13 leg	1 plateau	1 tablecloth
5 books	63 eat.	10 legs	1 polished	1 tea
1 boy	1 eatables	2 linen		1 timber
1 bread	34 eating	1 long	1 refreshments	2 top
2 breakfast		2 low	3 rest	1 typewriter
2 broad	1 ferns		3 room	
1 brown	1 fête	1 Mabel	10 round	2 use
1 butter	5 flat	2 mahogany		3 useful
	7 floor	1 mat	1 school	1 utensil
2 cards	20 food	6 meal	1 serviceable	
1 celery	1 fork	4 meals	2 set	2 victuals
1 center	1 forin	2 meat	1 shiny	
267 chair	75 furniture	1 mess	3 sit	1 wagon
7 chairs			2 sitting	1 whist
1 chemical	1 glass	2 nails	1 slab	1 white
37 cloth		1 napkin	1 smooth	1 wire
1 cockroaches	9 hard	1 number	1 soup	76 wood
1 comfort	1 hat		1 spiritualism	1 wooden
17 cover	2 home	1 oak	6 spoon	2 work
1 cutlery	3 house	1 object	2 spread	1 working
		1 old	9 square	2 write
11 desk	1 ink			6 writing

## 2. DARK

6 afraid	2 cold	2 fair	427 light	1 scare
	28 color	6 fear	1 lonely	1 shades
1 baby	1 colored	1 fearful	1 lonesome	2 shadow
1 bad	1 colorless	1 fearsome	1 lonesomeness	1 shadows
1 barks	1 coon	2 fright		1 sky
76 black	1 curly		1 mahogany	1 sleep
2 blackness		1 ghost	4 man	1 sleeping
1 blank	1 day	1 ghosts	1 mice	1 space
2 blind	1 daylight	6 gloom	1 midnight	1 starry
2 blindness	1 dead	11 gloomy	6 moon	2 stars
5 blue	1 denseness	1 gray	1 moonlight	1 stillness
1 board	3 dim	1 green	1 mysterious	1 storm
1 boat	3 dithness	1 ground		1 stumbling
15 bright	2 dingy		1 nice	1 subject
4 brightness	3 dismal	5 hair	221 night	1 sunlight
4 brown	1 dog	1 hall		
	1 door	1 hell	1 oblivion	1 thunder
1 candle	1 dreary	1 hole	1 obscure	1 tree
1 cart	4 dress	3 horse		1 twilight
2 cat	5 dungeon	2 house	1 parlor	
1 cell	1 dusk		1 prison	1 unseen
6 cellar	1 dusky	1 illumination		
1 close		2 invisible	5 red	1 walk
1 closet	4 evening		3 rest	3 weather
2 cloud	1 eye	1 lamp	22 room	9 white
2 clouds	2 eyes	1 lantern		1 woods
3 cloudy				

## 3. MUSIC

1 accordion	17 dance	1 harmonious	1 noisy	12 sing
3 air	1 dances	43 harmony	2 note	1 singer
1 amuse	15 dancing	1 hear	17 notes	48 singing
10 amusement	2 delight	2 heaven		1 soft
7 art	2 delightful	1 hurdygurdy	5 opera	1 softness
1 attention	3 discord	1 hymn	5 orchestra	1 solemn
1 attraction	1 drama		6 organ	68 song
		1 idealism		6 songs
6 hand	3 ear	21 instrument	2 paper	2 soothing
1 bassviol	1 ecstasy	5 instruments	1 pastime	95 sound
7 beautiful	1 elevating	1 instrumental	180 piano	2 sounds
2 beauty	1 enchantment		2 pianola	2 stool
7 Beethoven	1 enjoyable	1 jolly	1 pitch	1 strain
1 bell	1 enjoyed	11 joy	7 play	2 strains
1 bird	13 enjoyment	1 joyful	8 playing	1 string
1 birds	5 entertaining		10 pleasant	2 study
1 book	3 entertainment	1 lesson	1 pleasantness	47 sweet
2 books	1 entrancing	1 light	5 pleasing	6 sweetness
2 box		1 line	31 pleasure	4 symphony
1 brightness	1 feeling	1 liveliness	1 poem	
	1 fiddle	1 lonely	4 poetry	2 talent
1 captivating	2 fine	1 loud	1 practice	6 teacher
1 cats	1 flowers	2 love	4 pretty	1 teaching
1 charm	1 flute		1 pupils	1 thought
1 charms	1 fun	1 man		2 time
2 charming		1 meditation	1 quiet	3 tone
2 cheerful	2 gaiety	24 melody		1 town
2 cheerfulness	1 gay	1 Mendelssohn	1 rack	2 tune
1 Chopin	1 genius	1 Merry Widow	1 racket	
1 chord	2 girl	1 Mozart	1 rhyme	21 violin
1 chords	1 gladness	1 Mr. H.	2 roll	2 voice
1 clarinette	1 Goethe	1 Mrs. F.	1 room	
1 classic	3 good	3 musician		2 Wagner
2 classical	1 guitar	1 mute	2 sadness	1 wavy
2 composer			1 scale	1 window
1 company	2 hall	6 nice	2 Schubert	1 words
2 concert	5 happiness	1 nocturne	1 score	1 worship
1 conductor	2 happy	16 noise	5 sheet	
			1 sheets	1 Yankee Doodle

## 4. SICKNESS

1 affliction	2 disabled	2 home	1 operation	2 sorry
1 age	3 discomfort	1 horrible	1 oranges	1 stomach
8 ailing	20 disease	9 hospital		2 strength
2 ailment	4 distress		30 pain	1 suffer
1 air	62 doctor	48 ill	1 painful	12 suffering
1 anxiety	1 dread	71 illness	2 pale	1 summer
3 appendicitis	1 dreariness	1 incompetence	7 patient	2 sympathy
1 aunt		1 inconvenience	1 patients	
	1 enjoyed	1 indisposition	1 people	1 terror
1 baby	1 ether	1 infirmary	1 person	1 together
15 bad	1 exhaustion	1 insanity	7 physician	20 trouble
54 bed		2 invalid	1 pill	1 trying
1 Bertha	1 family		1 pills	6 typhoid
1 better	3 father	1 K.	1 plague	
1 body	1 fear	1 low	1 pleasantness	2 uncomfortable
1 business	4 feeble	1 lying	5 pneumonia	1 unhappiness
	1 feel		1 poverty	1 unhappy
1 calamity	1 feeling	2 melody	1 quiet	4 unhealthy
1 care	9 fever	1 man	1 quietness	5 unpleasant
2 child	1 fevers	3 measles		2 unpleasantness
1 cold	1 fracture	1 medication	2 recovery	11 unwell
1 condition	1 fright	20 medicine	1 relapsing	1 want
3 consumption		1 melancholy	1 rheumatism	1 weak
2 contagious	1 gloom	1 mine	1 room	11 weakness
1 convalescence	1 gravel	2 misery		2 wealth
2 convalescing	2 grief	3 misfortune	7 sad	1 weariness
3 cure	1 grunting	3 mother	9 sadness	1 weary
			3 serious	40 well
1 danger	2 hard	2 nervousness	4 severe	1 white
115 death	1 hatefulness	1 neuralgia	1 sigh	1 worried
1 dietary	5 headache	15 nurse	1 sore	1 worryment
8 diphtheria	— 142 health	2 nursing	24 sorrow	
1 disability	4 healthy			

## 5. MAN

2 adult	1 companion	1 homely	6 masculine	1 self
1 affection	1 company	1 horrible	1 mason	4 sex
1 age	1 coon	4 horse	1 mind	1 shirt
1 alive	1 crank	1 house	1 might	1 shoes
12 animal	8 creature	22 human	1 minister	1 short
1 animals	1 cross	1 humanity	1 minor	1 smoking
1 animate		4 husband	1 misery	1 stern
2 appearance	1 devil		1 money	1 stout
	2 doctor	1 individual	1 monkey	1 street
1 baby	1 dress	1 insane	1 Mr. D.	32 strength
2 bad		1 institution	1 Mr. H.	8 strong
1 heard	1 educator	1 intellectual	1 Mr. N.	1 sweetheart
2 breast	1 existence	1 intelligent	8 Mr. S.	
19 being			1 muscular	1 Taft
3 biped	1 fakir	1 janitor		12 tall
1 blond	1 false	1 Joe	1 N.	1 thought
3 body	1 family		1 nature	6 trousers
44 boy	15 father	1 labor	1 Ned	1 true
1 brain	3 female	2 laborer	1 nice	
1 bright	2 flesh	7 lady	3 noble	1 unfeminine
1 brightness	2 form	11 large	1 nuisance	1 use
3 brother	1 fraud	4 life		
1 brotherhood	1 Fred	1 light	1 out	1 V.
1 brute	2 friend	1 limb		1 voter
1 bum		2 living	1 papa	
6 business	1 gentle	1 lord	1 passion	1 walk
	7 gentleman	1 love	2 people	1 wedding
3 cane	6 girl		80 person	1 whiskers
1 certain	1 cleric	1 machine	1 pleasure	5 wife
2 Charles	10 good	1 maiden	2 policeman	1 wise
10 child	1 greatness	90 male	1 politician	304 woman
2 children	1 grown	1 mammal	5 power	17 work
1 Christian	1 growth	1 manhood	1 professor	1 works
1 clergyman		5 mankind	1 prosperity	1 worker
7 clothes	1 hair	1 manliness	1 provider	3 working
2 clothing	7 hat	2 manly		
3 coat	2 help	1 marriage	1 Roosevelt	2 young
1 comfort	1 home	1 married	1 ruler	

## 6. DEEP

3 abyss	4 darkness	1 heavy	1 precipice	1 story
1 altitude	1 dense	5 height	4 profound	1 strong
1 around	31 depth	37 high		1 study
	1 depths	32 hole	1 ravine	1 sunken
3 below	1 diameter	13 hollow	1 reaching	1 surface
1 beneath	1 dig		13 river	1 swimming
1 black	8 distance	3 large	1 rocks	
3 blue	3 ditch	8 length		1 thick
1 bottom	1 delightful	2 level	1 safety	1 thickness
1 bottomless	27 down	4 light	1 scare	1 thin
1 bowl	1 dread	18 long	90 sea	2 thinking
1 breath		51 low	1 sewer	14 thought
2 broad	1 earth		1 shade	2 thoughts
1 brooding	1 extension	2 measure	1 shady	1 tranquil
1 brook		1 mighty	— 130 shallow	1 trench
	2 fall	1 mind	1 sharp	
2 cave	3 falling	4 mine	1 whip	1 under
1 Cayuga	3 far		1 short	
1 chair	5 fathomless	3 narrow	1 sincere	1 valley
2 chasm	1 fear		2 sink	2 vast
1 cellar	1 full	98 ocean	1 sleep	
1 classic		1 organ	1 smooth	1 wading
1 clear	1 gloomy		1 sorrow	134 water
1 cliff	1 good	1 philosophy	2 sound	44 well
	1 gorge	1 pit	6 space	1 wet
3 danger	1 great	1 pond	2 spacious	12 wide
5 dangerous	1 ground	1 pool	7 steep	2 width
28 dark				

## 7. SOFT

1 apple	1 dark	3 gentle	1 membrane	3 snap
	1 dough	1 girl	2 mild	7 snow
7 baby	6 down	1 glove	1 moist	6 soap
2 ball	8 downy	3 good	2 moss	1 soup
1 beautiful	1 dress	1 grasp	15 mud	22 sponge
12 bed	1 drink	1 grass	10 mush	1 sponges
1 boiled		3 ground	1 mushing	8 spongy
1 brain	7 earth	1 gum	12 mushy	1 squash
4 bread	1 ease		4 music	1 sticky
1 breeze	34 easy	3 hair		1 strong
12 butter	4 eggs	3 hand	4 nice	1 substance
	2 eggs	1 hands		8 sweet
1 cake	1 elastic	— 365 hard	1 palatable	1 sweetness
1 candy	1 eyes	1 harsh	2 peach	
1 care		1 hazy	2 pear	8 tender
1 carpet	2 feather	1 head	53 pillow	1 texture
1 cat	24 feathers		2 pillows	1 timid
1 cement	1 feathery	1 idiot	8 pliable	1 tomatoes
1 clay	1 feel	1 jelly	2 plunk	4 touch
1 clean	8 feeling		4 pudding	
3 cloth	1 felt	2 kitten		1 uncooked
1 clothes	6 fine		1 quality	15 velvet
2 coal	1 firm		8 quiet	2 voice
1 cold	8 flabby	1 large		
2 color	1 fleece	8 light	3 rubber	1 wadding
2 comfort	1 flesh	1 lightly		1 warm
5 comfortable	7 flexible	2 liquid	1 sand	8 water
1 comply	1 floor	2 loose	1 satisfactory	1 watery
1 consistency	1 fluffy	5 loud	1 sent	1 wax
25 cotton	2 food	5 low	10 silk	8 wet
1 crabs	1 foolish		1 skin	8 white
2 cream	1 form	1 maple	2 slow	8 wool
1 creeping	3 fruit	1 marshes	1 slushy	1 woolen
25 cushion	1 fun	1 medium	27 smooth	
	4 fur	11 mellow		5 yielding

## 8. EATING

1 abstain	1 enjoyable	2 ice-cream	1 olives	2 slow
1 abstinence	1 enjoying	4 indigestion	1 oranges	1 slowly
2 action	2 enjoyment			2 soup
25 appetite	1 enough	1 knives	2 palatable	4 starving
4 apple	1 etiquette		3 people	2 steak
6 apples		1 lemons	3 pie	2 stomach
1 assimilation	3 fast	2 life	7 pleasant	1 strawberries
	5 fasting	4 live	1 pleasantness	2 strength
1 hitting	1 fattening	6 living	10 pleasure	1 substance
46 bread	2 feasting	1 lobster	1 plenty	2 sufficient
7 breakfast	1 feed	1 lobsters	1 poor	1 sugar
1 butter	5 feeding	8 lunch	1 potato	1 surfelting
	2 filling		2 potatoes	1 sustaining
4 cake	1 finishing	1 masticate	1 provisions	2 sustenance
3 candy	8 fish	11 masticating	1 pudding	6 swallow
1 Chacona's	1 flavor	5 mastication		5 swallowing
1 chew	1 flesh	1 matter	1 quick	
27 chewing	— 170 food	4 meal	1 quickly	21 table
8 chicken	2 fork	10 meals		1 talking
1 coffee	1 forks	11 meat	2 refreshing	7 taste
1 Commons	8 fruit	1 meeting	1 refreshment	2 tasting
4 consuming	4 full	1 mild	1 Reisenweber	3 teeth
3 cooking		1 milk	1 relief	1 thinking
2 cream	1 gluttonish	1 more	2 relish	1 throat
	23 good	1 motion	2 resting	1 tongue
1 devour	1 gourmandiser	2 mouth	1 room	
2 devouring	1 gratifying	1 movement		1 use
2 diet		1 much	1 sandwich	1 utensils
1 diets	3 habit	1 myself	12 satisfaction	
1 digest	9 health		4 satisfied	3 vegetable
7 digesting	1 healthful	4 necessary	1 satisfy	8 vegetables
10 digestion	1 heartily	7 necessity	5 satisfying	4 victuals
2 dine	1 hearty	3 nice	1 sick	
1 dining	2 hot	1 nourish	1 sit	2 want
31 dinner	1 house	2 nourishing	1 sitting	1 water
6 drink	19 hunger	11 nourishment	1 sleep	1 watermelon
168 drinking	44 hungry		17 sleeping	2 well
1 dyspepsia				1 work

## 9. MOUNTAIN

1 abrasion	1 dirt	2 hilly	1 Mount Pleasant	1 shadows
4 Adirondacks	1 distance	1 Himalaya	1 Mount Shasta	1 shooting
2 air	1 ditch	5 hollow	1 Mount Wilson	1 size
3 Alleghany		1 Holyoke		2 sky
6 Alps	3 earth	1 home	2 object	1 slope
2 altitude	9 elevation	1 horse	1 Owl's Head	10 snow
1 attractive		1 Hudson		12 steep
1 automobile	1 fear	2 huge	16 peak	1 steepness
	1 field		1 peaks	2 stone
1 Bald	1 Flashman	1 impressive	1 pictures	1 stones
1 beautiful	1 foliage	1 incline	1 Pike's Peak	2 stream
2 beauty	1 fountain	1 island	1 pines	4 summit
2 big			11 plain	2 Switzerland
1 Blanc	1 Galetton	1 Kipling	1 plateaus	
1 Bluff	1 geography	1 knoll	3 pleasure	1 tall
1 Breckenridge	1 grand		1 pointed	1 Terrace
	3 grandeur	8 lake		5 top
1 camping	1 granite	6 land	1 railway	2 tree
8 Catskills	1 grass	1 landscape	3 range	17 trees
2 cliff	1 great	4 large	1 ranges	
1 cliffs	4 green	1 level	8 river	1 up
1 Clifton	1 ground	1 lofty	10 rock	
9 climb		2 low	6 Rockies	2 vale
27 climbing	1 heath	1 lowland	18 rocks	90 valley
1 close	73 height		5 rocky	5 valleys
3 clouds	2 heights	1 Monodonack	1 rough	1 Vermont
1 cone	246 high	1 mound		2 view
5 country	1 highlands	1 Mount Ivy	1 scene	2 volcano
1 crevice	2 highness	1 Mount Kear-	3 scenery	
	184 hill	sarge	1 sea	1 Washington
1 descend	32 hills	1 Mount McKi-	1 seas	5 White
2 descending	2 hilltop	ley	1 seashore	1 wood
1 desert	1 hilltops			3 woods

## 10. HOUSE

15 abode	1 corridor	1 habitable	2 mouse	1 star
1 alley	42 cottage	5 habitation		1 steps
3 apartment	3 cover	1 happiness	1 new	7 stone
	1 covering	2 height		1 stoop
1 background		3 high	1 object	2 store
74 barn	1 dark	3 hill	1 old	7 street
1 Bay Ridge	1 den	103 home	1 ours	8 structure
2 beautiful	2 dog	1 homeless		
1 Belknap	1 domestic	4 hospital	1 palace	1 tabernacle
4 big	1 domicile	1 hot	1 painting	1 table
1 blinds	16 door	5 hotel	1 Pasadena	1 tall
3 boards	1 doors	1 hovel	11 people	1 telescope
2 boat	3 dwell	2 hut	2 piazza	1 tenant
1 box	68 dwelling		1 picture	2 tenement
23 brick		1 inhabitant	6 place	3 tent
5 bricks	1 enclosure	1 inhabited	1 pleasant	1 timber
2 brown	1 erection	1 inmates	3 pretty	5 top
2 build		1 into	1 property	1 town
78 building	4 family		3 protection	2 tree
2 bungalow	1 fancy	1 joy		1 trees
	2 farm		4 red	1 tumbler
8 cabin	1 farmer	10 land	1 refuge	
1 camp	1 fence	1 lake	19 residence	2 villa
1 carpenter	1 field	24 large	2 resident	1 village
1 carpet	1 fire	3 lawn	1 restful	
4 castle	1 floor	1 lemon	1 road	1 walls
1 cattle	1 form	1 Leonia	12 roof	3 warm
1 cellar	1 foundation	2 life	9 room	1 wealth
2 chair	5 frame	33 live	8 rooms	1 well
1 chamber	1 friends	19 living		9 white
1 chicken	1 furnace	18 lot	1 Sage	1 Whittier
5 chimney	1 furnishing	1 lots	2 school	1 wide
1 church	11 furniture	3 lumber	1 sea	1 willow
2 city			1 shanty	9 window
2 clean	10 garden	2 man	5 shed	5 windows
1 closed	1 grandmother	14 mansion	22 shelter	31 wood
1 college	1 great	1 material	2 sky	1 wooden
0 comfort	2 green	1 mine	2 small	1 workman
1 comforts	3 ground	1 mortgage	1 spacious	1 worship
3 comfortable	1 grounds	1 Mountain	4 square	
1 contractor		House	3 stable	10 yard

## 11. BLACK

1 agreeable	36 darkness	2 hair	1 obscure	2 somber
8 blue	4 death	3 hat	1 orange	1 soot
3 board	1 dense	1 heavy		4 sorrow
2 book	1 desolate	1 hog	4 paint	1 space
2 bright	2 dirty	1 horror	1 paper	1 spectrum
1 buggy	1 disagreeable	6 horse	1 pen	1 stockings
	1 dislike		2 pink	1 suit
	4 dog	1 impenetrable	1 pipe	
8 cat	1 domino	14 ink	1 pit	1 table
1 chair	29 dress			1 tar
1 charcoal	2 dye	1 lack	1 radiator	1 terror
17 cloth		12 light	4 red	1 tie
4 clothes	1 earth	1 marmy	1 ribbon	1 umbrella
1 cloud	1 ebony	2 man	1 robe	
1 clouds		1 Mrs. B.	1 sad	1 velvet
2 cloudy	1 face	2 mournful	2 sadness	
3 coal	2 fear	17 mourning	1 sack	2 wall
3 coat	1 figure	1 mud	1 shady	1 water
129 color	1 flecked		2 sheep	389 white
1 colored	1 floor	7 negro	4 shoe	1 wonder
8 colorless	1 funeral	1 negroes	1 shoes	1 wood
1 coon		6 nigger	1 sign	
2 crepe	2 gloomy	61 night	2 skirt	2 yellow
1 curtain	1 gown	1 nothing	1 sky	
172 dark	2 gray			
	7 green			

## 12. MUTTON

9 animal	1 delicious	1 goat	1 Mary	1 soft
1 animals	6 dinner	9 good	257 meat	2 soup
1 appetite	2 disagreeable	1 grass	1 mouse	1 stale
1 Australia	1 dish	2 grease	1 muttonhead	3 steak
	2 dislike	1 greasy		2 stew
1 baa	1 disliked		2 nice	2 strong
97 beef		2 ham		
1 bony	14 eat	1 hate	1 old	4 table
1 breakfast	7 eatable	2 head		6 tallow
15 broth	10 eating	1 hurrid	1 pastures	3 tender
1 brown			1 peas	1 thinking
2 butcher	7 fat	1 indigestion	2 pig	6 tough
	2 field		3 pork	
2 calf	10 flesh	1 knife		1 uncle
1 cattle	1 flock		1 rare	
3 cheap	80 food	121 lamb	4 roast	80 veal
34 chop	1 fork	2 lambe		1 vegetables
33 chops	1 fowl	5 leg	1 sauce	1 vegetarian
2 cow			204 sheep	
			1 smell	4 wool

## 13. COMFORT

1 agony	1 driving	1 justice	1 please	11 solid
1 annoyance	165 ease	1 kindness	77 pleasure	8 solitude
1 bad	11 easiness		1 plentiness	2 soothing
42 bed	61 easy	1 lamp	1 plenty	5 sorrow
4 blanket	1 eating	2 laziness	1 Polly	1 speak
1 book	1 enjoying	1 lazy	1 post	1 spirit
1 books	6 enjoyment	6 leisure	6 quiet	1 spread
		1 less	1 quietness	1 suffering
1 canoe	1 feather	1 life	7 quilt	1 sweet
4 care	1 feeling	1 like		1 swing
31 chair	2 fireplace	2 living	1 rain	2 table
1 cheer	2 fireside	1 loneliness	1 relief	1 taken
1 children	1 friends	6 lounge	53 rest	1 tea
1 cloth		1 luxurious	1 restful	1 thankfulness
4 comfortable	1 God	23 luxury	1 restfulness	1 tired
1 comforter	5 good		5 resting	1 trials
2 consolation	1 goodness	1 man	1 rich	1 trouble
1 console	1 great	1 mansion	3 rocker	
1 consoling	1 grief	1 miserable		1 uncomfort
2 content		9 misery	1 safety	10 uncomfortable
4 contentment	7 hammock	9 money	1 salary	3 uneasiness
2 convenience	50 happiness	3 mother	4 satisfaction	3 uneasy
1 cozy	17 happy		3 satisfied	1 unrest
9 couch	2 hard	1 neatness	1 security	1 unwell
1 cover	7 hardship	4 nice	1 settled	
1 covering	1 healing	1 none	1 sick	6 warm
4 cushion	15 health	2 nurse	3 sickness	4 warmth
1 cushions	3 help		1 sit	6 wealth
	63 home	4 pain	4 sitting	8 well
1 davenport	4 house	2 palace	10 sleep	1 well-being
1 death	1 household	1 patient	1 slippers	1 wine
1 delightful		12 peace	1 slumber	1 wish
2 desirable	1 I	1 people	1 smoke	1 woman
24 discomfort	1 idleness	2 pillow	1 smoking	1 wool
1 disease	1 ill	1 pipe	5 sofa	1 work
1 displeasure		1 playing	2 soft	
4 distress	9 joy	9 pleasant	1 solace	1 ye

## 14. HAND

2 anatomy	11 feel	2 instrument	1 narrow	1 shapely
63 arm	5 feeling		2 necessity	1 shop
2 arms	85 feet	1 jewel	1 nice	1 shoulder
	2 fellowship	1 kindness	1 nimble	4 skin
1 ball	39 finger	1 knife	1 nose	1 slim
3 beautiful	83 fingers	1 knitting		8 small
3 black	1 flat		1 object	1 soap
1 bleeding	10 flesh	1 labor	4 organ	8 soft
48 body	204 foot	1 large		1 something
1 bone	1 form	4 leg	5 palm	1 sore
1 bones	1 formation	1 legs	1 part	6 strength
1 busy	1 friend	1 lemon	2 paw	3 strong
	1 friendship	2 life	1 pencil	1 support
2 cards	1 fruit	48 limb	1 perfect	1 system
1 clean		1 limbs	10 person	
1 clock	1 give	1 long	1 piano	1 table
1 convenience	20 glove	1 love	1 pen	1 thread
1 cradle	5 gloves		8 power	9 touch
1 cunning	1 good	2 machine	3 pretty	2 two
	8 grasp	1 maid	1 purity	
1 dexterity	1 greeting	3 man		12 use
1 diligence	8 grip	1 manipulation	1 reach	24 useful
1 dissecting		14 member	1 rest	4 usefulness
1 do	1 handle	1 mind	11 right	
2 doing	3 handy	1 mine	23 ring	1 watch
1 dog	1 hard	4 mouth	2 rings	1 woman
	1 head	1 move		49 work
1 ear	2 heart	4 muscle	1 satisfaction	15 white
1 elbow	6 help		1 servant	4 writ
6 extremity	2 helper	2 nail	2 sew	3 write
	1 helping	0 shake	2 sewing	11 writing
7 face	3 hold	1 name	1 shape	1 you
1 fat	1 holding			
	2 human			



## 15. SHORT

2 abbreviated	1 down	1 lake	1 petticoat	1 strong
1 age	1 drawn	2 large	1 pin	1 stubborn
2 arm	3 dress	2 leg	1 pity	9 stubby
	2 dumpty	18 length	1 plant	4 stumpy
1 baby	11 dwarf	1 lesson	1 plants	1 stunned
1 beach	1 dwarfs	1 lessons	1 pony	1 stunted
1 beam		5 life	2 post	1 sufficient
1 board	2 easy	15 little	2 pygmy	1 sum
3 boy	1 elongated	1 line		1 sweet
1 brevity	1 extension	1 lived	8 quick	
1 brick		279 long	1 quickly	168 tall
7 brief	4 fat	11 low		6 thick
1 broad	1 finger	1 lowly	1 road	1 thin
1 build	1 flowerpot		1 round	8 time
	2 foot	20 man		1 tiny
1 C.	2 friend	8 measure	1 session	1 Tom Thumb
1 cake		1 measurements	1 shallow	1 tree
1 chair	11 girl	2 medium	1 sister	
1 change	1 good	1 midget	5 size	1 unpleasant
4 child	1 grandmother	1 millimeter	1 skirt	1 useless
1 children	5 grass	1 minus	1 skirt	
1 clock	2 hair	1 Miss K.	1 slight	1 vacation
1 cloth	1 happiness	1 money	1 slightly	
1 comfort	18 height	1 mother	130 small	1 waisted
1 compact	4 high	6 myself	1 space	3 walk
1 cut	1 hour		2 speech	1 want
1 cylinder	3 hours	1 name	1 square	2 wanting
		1 narrow	1 staccato	1 water
1 dainty		1 near	2 stature	1 well
4 day	5 inch	1 needle	2 stem	1 wide
2 deficient		1 not	8 stick	6 woman
1 dimension	2 journey		2 stop	1 wood
1 diminutive	1 Karl	1 out	1 story	1 worm
2 diminutive			24 stout	
1 disagreeable		6 pencil	1 strawberries	1 you
10 distance	1 lacking	2 people	2 street	
1 dot	4 lady	15 person	1 string	

## 16. FRUIT

2 acid	1 easy	3 health	25 orange	1 salad
2 appetite	62 eat	2 healthy	20 oranges	5 seed
157 apple	33 eatable	1 home	6 orchard	1 sickness
102 apples	15 eatables		1 outcome	4 sour
1 article	35 eating	1 Italians		1 south
	1 edible	1 invigorating	2 palatable	1 spring
1 bake	1 eggs	1 jam	17 peach	1 stalk
11 banana	2 enjoyment	6 juice	23 peaches	1 stand
8 bananas		5 juicy	24 pear	1 stems
7 berries	1 fig		11 pears	1 store
1 berry	1 fish	1 knife	1 picking	2 strawberries
1 blackberries	1 flesh		1 pie	1 strawberry
2 bread	3 flower	2 lemon	2 pineapple	2 summer
	3 flowers	1 liked	1 plant	1 swallow
2 cake	1 fond	1 love	2 pleasant	24 sweet
1 can	22 food	2 luscious	1 pleasure	1 sweets
1 candies	1 fresh	2 luxury	2 plenty	
3 candy			2 plum	3 table
2 cherries	2 garden	4 meat	2 produce	5 taste
2 cherry	24 good	1 medicine	1 prune	35 tree
1 country	2 grain	1 melon		27 trees
1 currants	4 grape	1 milk		
	14 grapes		1 raspberries	
1 dainty	1 grapefruit	1 nourishing	1 raspberry	75 vegetable
2 delicacy	1 green	2 nourishment	1 red	23 vegetables
9 delicious	1 grove	5 nice	1 result	
1 desire	1 grows	2 nutritious	9 ripe	1 watermelon
1 digest	1 grows	2 nuts	1 ripeness	1 wine
1 digestion	2 growth			

## 17. BUTTERFLY

1 air	6 cocoon	20 flying	1 lilies	1 soul
1 airiness	1 cocoons		1 little	1 sparrow
2 airy	4 collection	1 gaudy		1 speckled
24 animal	12 color	1 gauze	1 meadows	9 spider
2 animals	8 colors	2 gay	1 metamorphosis	2 spotted
2 ant	3 colored	2 girl	4 miller	5 spring
	2 country	2 gnat	1 monarch	17 summer
1 beast	1 cricket	3 golden	3 mosquito	1 sun
24 beautiful		1 good	1 motion	5 sunshine
20 beauty	1 daisy	2 grace	30 moth	1 swallow
31 bee	1 dish	1 graceful	1 moths	1 sweet
4 bees	1 dove	1 grass	1 mountains	1 swift
5 beetle	1 dress	5 grasshopper	1 mourning cloak	
64 bird	1 dust	2 grasshoppers		1 temporary
10 birds		5 grub	2 nature	1 tree
2 black	1 eagle		6 net	1 two
1 blossom	1 ease	1 handsome	1 nets	
1 blue	1 ephemeral	1 happy	2 nice	1 useless
2 bread		1 high		
1 bright	1 fairy	1 horse	1 orange	2 vanity
2 brilliant	2 field	1 human	1 outdoors	1 variegated
1 brown	1 fields			
1 bush	1 firefly	1 idler	1 pancake	11 wasp
3 butter	6 flies	261 insect	1 pig	2 white
6 buttercup	2 fight	2 insects	2 pigeon	1 wind
11 bug	1 flippant		1 plumage	11 wing
1 bugs	1 filtering	1 Japanese	1 powder	81 wings
1 bumblebee	1 fitting		30 pretty	1 word
	1 fits	1 kite		12 worm
1 cabbage	13 flower		1 red	2 worms
37 caterpillar	12 flowers	1 lady		
1 caterpillars	2 flutter	8 lepidoptera	2 small	37 yellow
1 chase	1 fluttering	5 light	1 snakes	
3 chrysalis	44 fly	2 lightness	1 snare	

## 18. SMOOTH

2 apple	3 face	1 kind	5 pleasant	2 small
1 ball	1 fair		1 pleasing	1 snake
1 basin	1 feeling	1 lake	1 plum	70 soft
2 bed	8 fine	2 lawn	5 polished	1 softness
9 board	2 finished	1 lens	1 pressed	1 sphere
1 butter	14 flat	52 level		1 stone
	2 flexible	1 lightly	1 quality	2 straight
4 calm	15 floor	1 lovely	1 queer	1 street
1 carpet	1 folded			1 stroke
1 character	2 fur	1 machinery	1 razor	25 surface
1 cheek	56 glass	1 mahogany	2 river	
1 chip	4 glassy	10 marble	4 road	20 table
1 circus	1 glazed	1 mercury	1 roads	1 thin
2 clean	3 glide	1 mild	2 roof	1 thought
3 clear	1 gliding	1 mirror	277 rough	1 tidy
3 cloth	11 glossy	1 molasses	2 round	1 tomato
1 clothes	2 good		1 rubber	1 tongue
2 coarse	1 goods	1 narrow	1 rugged	4 touch
1 coat	1 grand	4 nice	1 rule	1 tranquil
1 country	3 grass	1 nicely	1 running	
1 course	1 grease	1 oyster		2 uneven
2 cream	4 ground		1 sailing	
1 cube			1 sandpaper	20 velvet
1 deceitful	8 hair	1 paint	2 satin	1 velvety
1 deep	2 hand	9 paper	1 sea	1 very
1 desk	41 hard	2 paste	1 shape	
1 done	1 harmonious	1 pat	1 sharp	5 wall
1 dry	4 harsh	1 path	1 shave	1 walls
		1 pebble	4 shiny	10 water
		1 person	4 silk	1 wave
2 ease	14 ice	1 piano	1 silken	1 window
12 easy	13 iron	1 placid	5 skin	8 wood
30 even	1 ironing	17 plain	2 sleek	1 work
1 evenness	1 ivory	23 plane	3 slick	1 worm
		1 planed	4 slippery	1 wrinkled
				1 wrinkles

## 19. COMMAND

1 ability	1 dislike	1 harshly	12 obedience	1 something
1 act	27 do	1 haughty	2 obedient	3 speak
1 acting	3 doing	1 head	230 obey	1 spoken
1 anger	2 domineer	1 him	1 obeyed	1 stamina
1 answer	2 domineering	1 holy	30 officer	1 statement
1 anything	2 done	1 honorable	1 only	7 stern
1 appeal	2 don't	1 horse	171 order	3 strength
1 appearance	1 door		2 ordering	1 strict
16 army	2 drill	1 I	9 orders	3 strong
1 arrogance	1 driver	1 immediately		1 stubborn
2 ask	5 duty	3 imperative	1 parents	1 superintend
2 asking		4 imperious	1 peace	1 superior
1 athletics	1 earnestness	1 independent	2 people	1 supervisor
3 attention	1 easy	1 insist	2 peremptory	1 surly
14 authority	1 eat	1 instant	1 perfect	1 surrender
	1 effort	1 institution	1 person	
1 baseball	1 employ	2 instruct	1 plead	2 talk
1 Bible	1 employees	1 instruction	1 policeman	1 teach
1 bid	1 enforce	1 intelligence	10 power	14 teacher
6 boss	1 entreat		2 powerful	1 teachers
1 boy	7 entreaty	1 judge	1 praise	1 teaching
	1 exclamation		1 proper	15 tell
7 captain	1 exertion	1 knowing	1 question	1 telling
2 charge	1 experience		1 quick	3 temper
2 chief		1 labor		1 temperament
1 church	1 father	1 language		1 thee
1 combine	1 firm	2 law	2 refuse	1 them
1 combined	1 forbid	1 laziness	1 regiment	2 think
5 come	7 force	2 lead	1 reply	1 thinking
5 commander	1 forced	1 leader	2 reprimand	1 thoughtfulness
2 commandment	1 foreman	1 lieutenant	11 request	1 threat
2 company		2 listen	5 respect	2 told
1 compel	1 gain	2 loud	1 respond	
8 control	43 general	1 love	1 retreat	1 uncomfortable
1 cross	1 gentleness		3 right	1 upright
	1 gently	1 madam	2 rule	
1 dare	1 Germany	9 man	1 ruling	6 voice
18 demand	1 give	2 master	1 running	1 vow
1 demanding	25 go	1 masterful		
2 desire	1 God	3 military	1 say	1 wagon
2 determined	1 God's	2 mind	1 saying	1 wife
3 dictate	2 good	1 mother	2 school	3 will
1 dictatorial	1 govern	1 move	1 severe	1 willing
2 dignity	1 grand	1 must	1 shalt	2 words
2 direct			1 ship	2 work
1 disability	4 halt	1 noble	16 soldier	1 wrong
2 discipline	4 harsh	1 nuisance	6 soldiers	
				3 you

## 20. CHAIR

4 arm	1 cushions	1 idleness	1 people	56 sitting
4 article		1 implement	3 person	1 size
	9 desk		1 place	6 sofa
1 back	7 ease	1 joiner	1 placed	5 soft
1 beauty	6 easy		1 plant	1 spooning
1 bed		3 large	1 platform	1 stand
13 bench	1 fatigue	7 leg	1 pleasant	38 stool
1 book	10 floor	11 legs	1 pleasure	1 stoop
1 boy	1 feet	3 lounge	1 posture	1 study
2 broken	1 foot	3 low		1 support
4 brown	1 footstool	1 lunch	1 reading	
1 bureau	1 form		45 rest	191 table
3 cane	83 furniture	3 mahogany	3 resting	1 tables
1 caning		1 massive	17 rocker	1 talk
1 careful	1 Governor	1 mission	15 rocking	1 teacher
1 carpet	Winthrop	5 Morris	9 room	1 timber
1 cart		1 myself	2 rounds	1 tool
1 color	1 hair	2 necessity	1 rubber	
21 comfort	5 hard		3 rung	1 upholstered
3 comfortable	2 hickory	2 oak	127 seat	1 upholstery
3 convenience	4 high	1 object	5 seated	2 use
5 couch	2 home	1 occupy	2 seating	3 useful
1 crooked	3 house	1 office	3 settee	1 white
12 cushion			107 sit	49 wood
				6 wooden

## 21. SWEET

5 agreeable	1 dinner	1 hunger	33 nice	1 sharp
1 appetizing	1 dog	1 Huyler's		1 sickish
11 apple	1 dreams		1 orange	2 sixteen
3 apples		1 insipidity	2 oranges	6 soft
	1 E.			1 soothing
3 beautiful	2 eat	2 kiss	9 palatable	301 sour
60 bitter	1 elegant		3 peach	1 stuff
1 black	1 eyes	1 limited	1 peaches	224 sugar
1 breath		1 lovely	3 perfume	2 syrup
	1 face	1 loving	2 pie	
1 candies	2 flavor	2 low	1 plausible	57 taste
82 candy	2 flower		31 pleasant	4 tasteful
1 cherries	3 flowers	1 Mary	4 pleasing	2 tasting
1 child	1 food	1 mellow	1 pleasurable	11 tasty
3 chocolate	1 fresh	1 melody	1 pleasure	1 tea
1 chocolates	0 fruit	2 milk	1 plum	2 toothsome
2 clean		1 molasses	1 preserves	
1 confectionery	1 gentle	1 mouth	1 quality	1 ugly
1 cream	6 girl	8 music		1 unpleasant
1 cunning	26 good	1 musty	1 saccharine	1 very
			3 salt	1 voice
7 delicious	2 harsh	1 name	1 salty	
1 dessert	12 honey	1 nausea		1 wholesome

## 22. WHISTLE

1 act	1 crow	5 holler	1 person	1 sounds
1 action	2 cry	1 hollow	1 piercing	3 steam
7 air	1 cuckoo	4 horn	7 pipe	1 steamboat
3 alarm		1 humming	2 pleasure	1 stick
1 annoyance	8 dance		1 police	
2 attention	1 dear	6 instrument	6 policeman	4 talk
1 automobile	1 disagreeable	2 joy	1 postman	1 telephone
	1 distant		1 postman's	1 throat
1 bad	7 dog	1 lad	1 pretty	7 tin
2 bell	1 drink	3 laugh	4 pucker	1 tool
15 bird	1 dumb	1 letter-carrier		1 top
3 birds		5 lips	1 quiet	4 toy
1 blast	1 ear	5 locomotive		6 train
5 blew	3 echo	3 long	2 racket	1 tree
95 blow	1 effort	27 loud	1 report	2 trumpet
6 blowing	15 engine	1 low	1 running	18 tune
2 blows				
2 boat	2 factory	1 man	1 scream	1 umpire
56 boy	3 fife	1 mash	1 screech	1 unpleasant
5 boys	1 fingers	1 melodious	5 sharp	
1 breath	3 fire	1 metal	4 shout	1 vibration
1 bright	5 flute	2 mill	1 shrieking	3 voice
1 brother	1 fly	1 mine	26 shrill	
1 buzzing	2 Franklin	1 mocking	1 shrillness	1 warble
	2 fun	27 mouth	3 signal	1 warning
26 call	1 funny	44 music	1 sang	1 whisper
2 calling			75 sing	1 whispering
2 cars	1 Galton	3 nice	4 singing	8 willow
1 cent	1 girl	1 nightingale	1 soft	10 wind
3 chain		178 noise	1 softly	1 wood
1 children	1 habit	3 noisy	12 song	1 wooden
1 clean	8 happiness	1 note	1 songs	1 work
1 clear	1 harmony	1 notes	1 sorority	
1 come	1 harsh		103 sound	1 yell
1 conductor				

## 23. WOMAN

2 adult	1 delicate	2 grand	3 lovely	5 short
1 affinity	1 delightful	1 grandmother	1 loving	4 sister
1 aged	1 develop	2 great		3 skirt
2 angel	1 dignity		1 Mabel	3 skirts
1 appearance	1 dinner	9 hair	1 maid	2 slender
1 appreciating	1 domestic	4 handsome	1 majesty	1 small
1 artificial	28 dress	5 hat	282 man	1 softness
	4 dresses	1 hats	2 mankind	1 spiritual
1 baby	1 dressmaker	1 helper	2 marriage	2 stout
1 Barnard	1 dust	3 helpmate	2 married	2 style
17 beautiful		1 her	2 mate	1 suffrage
7 beauty	1 Edna	3 home	1 modesty	2 sweet
9 being	1 endurance	1 honor	30 mother	2 sweetness
1 Bible	2 Eve	2 house	1 Mrs. S.	1 sweetheart
1 biped	1 eyes	1 housekeeper	1 myself	
3 body		1 housewife		1 talk
1 bonnet	9 fair	11 human	1 nature	7 tall
3 boy	3 fashion	2 humanity	1 necessity	1 teacher
1 bright	184 female		3 nice	1 temporary
	10 feminine	1 inexplicable	1 noble	1 truth
1 capability	2 flesh	1 individual	1 nurse	
1 cat	1 figure	1 intellect	1 old	1 uneasy
1 character	2 fine	1 interesting		1 use
45 child	1 freedom		1 palmist	2 virtue
2 children	3 friend	5 kind	1 parasol	
2 clean		1 kindness	1 people	1 waist
1 clever	1 genteel	2 labor	1 perfection	1 walks
6 clothes	5 gentle	41 lady	17 person	1 weak
1 clothing	1 gentleness	4 large	1 petticoats	2 weakness
2 comfort	59 girl	1 leader	3 pleasure	15 wife
1 companion	3 girls	1 liar	10 pretty	1 will
4 creature	1 goddess	1 living	1 purity	1 womanhood
1 cross	4 good	1 lovable		2 work
	1 goodness	5 love	1 rib	
1 dear	1 gown	1 loveliness	5 sex	5 you
1 deceit	3 grace			4 young
	2 graceful			

## 24. COLD

1 activity	1 darkness	2 head	1 overcoat	1 sleighing
2 agreeable	5 day	1 hearted		1 slow
4 air	1 death	37 heat	1 pain	1 sneezing
1 arctic	1 degree	151 hot	1 Peary	45 snow
4 atmosphere	6 disagreeable		2 penetrating	1 snuffles
1 autumn	8 discomfort	114 ice	1 pleasant	1 stone
	3 dreary	1 ice-cream	1 pressure	1 storm
2 bad		1 irritating		3 stove
4 bitter	1 feel		1 quiet	
1 bracing	10 feeling	1 January		1 temperate
1 breezy	1 feet		1 raw	8 temperature
1 brisk	1 Finland	1 latitude	1 refrigerator	1 thermometer
1 bum	6 fire	1 lemonade	1 rhinitis	1 touch
	1 fold	2 light	1 room	
9 chill	7 freeze		1 running	10 uncomfortable
30 chilly	23 freezing	2 man	1 rough	4 unpleasant
2 clothes	2 frigid	1 medicine		
1 clothing	9 frost	1 misery	1 sensation	166 warm
1 coal	4 frozen	1 mushroom	5 severe	6 warmth
5 coat	1 fuel		3 sharp	7 water
2 comfort	2 furs	1 nature	6 shiver	49 weather
1 comfortable		1 naughty	2 shivering	1 well
1 comfortless	1 grippe	1 near	1 shivers	1 white
5 cool	1 gloomy	1 never	1 shivery	5 wind
5 cough		1 night	1 shrivel	1 windy
2 cure	1 ham	1 numb	1 shudder	120 winter
	1 hands	1 numbness	4 sick	1 wraps
2 damp	2 hard		6 sickness	
4 dark			1 skating	2 zero

## 25. SLOW

1 action	1 decrease	1 indecision	1 pace	1 subway
1 age	2 delay	1 insect	1 papa	27 sure
1 anger	1 deliberate	2 invalid	8 person	8 swift
2 animal	2 dilatory	1 irritating	2 Philadelphia	1 swing
1 ant	1 distance		1 poke	
1 anxiety	1 dizzy	1 laggard	2 poky	1 talk
1 association	1 donkey	1 lagging	1 Poughkeepsie	3 tardy
1 automobile	1 drag	1 lassitude	1 pupil	1 team
1 awful	1 dragging	2 late		1 tedious
	2 dreary	2 laziness	1 quality	1 terrapin
2 baby	1 dressing	28 lazy	56 quick	1 thought
3 backward	1 drive	1 lecture	2 quickly	1 thoughtful
1 backwards	1 driver	1 leisure	1 quickness	1 tide
1 bad	1 drone	1 lingering	12 quiet	14 time
1 bear	1 Dr. R.	6 long		5 tired
1 beggar	7 dull		1 rain	2 tiresome
1 behind		3 man	9 rapid	4 tortoise
1 better	2 ease	1 march	1 rhythmic	18 train
1 Bill	63 easy	1 market	1 river	1 trains
3 boat	1 Erie	3 me	1 Rose	1 trolley
1 boring		1 medium	2 run	9 turtle
2 boy	316 fast	1 mice		2 unpleasant
1 breakdown	1 feeble	1 mind	1 sharp	1 unsatisfactory
	1 fine	1 mode	1 short	
1 camel	1 fire	1 moderate	1 sick	
1 canal boat	1 fly	20 molasses	1 sickness	1 vehicle
6 car	1 foot	1 monotonous	1 slack	
2 cars	1 funeral	1 moon	2 sloth	7 wagon
1 careful		7 motion	1 slowly	8 walk
1 carpenter	3 gait	1 motionless	7 sluggish	7 walking
1 cart	1 gin	1 move	10 smart	1 walks
1 catch	1 going	8 movement	1 smooth	1 water
2 caterpillar		5 moving	62 snail	1 waves
1 caution	2 hard	1 Mr. T.	1 snails	2 weak
1 child	3 haste	3 mule	1 snake	1 weather
1 climb	2 hasty	3 music	1 softly	1 wheel
5 clock	1 heavy	3 myself	2 speech	1 white
3 coach	14 horse		7 speed	1 work
1 conversation	1 hot	1 nasty	1 speedless	1 working
1 cow	3 hurry	1 nature	1 starting	1 world
1 crawl			2 step	3 worm
1 creep	1 impatience	1 obstacle	3 still	1 writing
2 creeping	1 inactive	2 old	3 stop	
	1 inanition	2 ox	1 stubborn	
1 dead	1 incessant	1 oxen	7 stupid	1 you

## 26. WISH

1 accomplish	1 candy	1 dog	6 fulfilment	3 heaven
1 accomplishment	1 cannot	1 doll	1 fun	1 heavens
1 achieve	1 check	1 dollars		1 help
1 Aladdin	2 chicken	2 dream	2 gain	12 home
2 ambition	2 child	1 dress	14 get	51 hope
1 angel	3 Christmas	1 driving	4 gift	1 hoping
1 answer	1 clover		1 girl	2 hopeful
1 anxiety	1 clovers	1 eat	3 give	1 house
1 anxious	1 cold	1 entreaty	1 glad	
1 any	2 come	1 enjoyment	4 go	2 idea
7 anything	4 comfort	1 examination	1 gold	1 imagination
1 apology	9 command	1 expectation	19 good	1 impossible
1 ardent	1 conditions	5 express	7 grant	1 inclination
8 ask	2 cool	1 expression	15 granted	
1 asking	1 craving		4 gratification	2 journey
1 attain		11 fairy	6 gratified	1 joy
	2 demand	2 fancy	11 gratify	
1 baby	1 desirable	1 farm	1 greetings	1 know
2 beg	197 desire	5 favor	2 guess	
1 benefit	1 desires	1 feeling		2 letter
1 best	1 diamond	1 finish	18 happiness	8 like
1 better	1 disappoint	1 fish	3 happy	1 liked
19 bone	1 disappointed	1 fond	1 hard	1 lonesome
1 books	3 disappointment	1 foolishness	2 hat	10 long
1 boy	1 dish	5 for	1 hate	18 longing
1 boys	1 dislike	2 fortune	18 have	2 love
1 breakfast	1 did	1 fulfil	6 health	9 luck
1 brightness	5 do	2 fulfilled	1 hearty	

1 make	1 perhaps	1 repeat	9 star	1 unsatisfied
1 marry	1 person	8 request	2 stars	
2 million	1 pick	1 rest	1 strong	2 vacation
4 mind	1 picture	1 rich	4 success	
32 money	1 pie	3 riches	1 suggest	66 want
1 moon	1 plan	1 ring	2 summer	1 wants
1 morning	1 play		1 sweetheart	1 wanted
1 music	1 pleasant	1 sail	1 swim	9 wanting
1 myself	5 pleasure	1 satisfactory		1 waste
	2 plenty	2 satisfied	18 think	1 watch
1 news	3 position	1 satisfy	6 thinking	1 water
1 nice	1 possess	1 satisfying	47 thought	2 wealth
1 no	1 possession	2 say	1 toy	8 well
	2 present	1 secret	1 trip	3 will
8 obey	2 promise	1 sincere	1 trouble	2 wisdom
1 object		1 sleep	6 true	1 wise
1 obtain	1 quiet	1 some	1 try	14 wishbone
1 offer		15 something		2 wonder
1 one	1 reality	1 sorrow	1 unattainable	2 would
1 opportunity	1 receive	1 sorry	1 uncertain	1 wouldn't
1 opposition	1 remembrance	1 speak	1 unfulfilled	
1 orange	1 renown	1 special	1 unlawful	1 yes
1 order				1 you

## 27. RIVER

1 Amazon	1 Connecticut	65 lake	5 pond	7 smooth
1 Androscoggin	10 creek	1 lakes		1 spring
	8 current	5 land	1 rain	1 St. Lawrence
1 bank		7 large	1 Rappahannock	117 stream
2 banks	1 dangerous	1 launch	2 rapid	1 streams
1 barrow	35 deep	1 length	1 Rhine	1 streamlet
8 bathing	1 Delaware	1 life	1 rill	1 strong
1 bay	1 depth	1 liquid	2 rivulet	1 sunset
1 beautiful	1 drowned	8 long	1 rivulets	2 Susquehanna
1 beauty			1 row	3 swift
1 bend	4 East	1 meadow	1 rowing	4 swim
6 blue		8 Mississippi	3 run	4 swimming
20 boat	1 fish	1 Missisquoi	3 runs	
3 boats	24 flow	1 Mikawuki	4 running	1 Tay
1 boating	5 flows	1 Mohawk	1 rushing	1 tide
1 body	17 flowing	1 motion		1 tree
2 bridge	1 Freiherg	10 mountain	1 Saco	1 tug
5 broad	1 front	2 moving	4 sailing	1 turbulence
20 brook			1 salt	
1 bubbling	1 God	17 ocean	14 sea	5 valley
	1 Grand	2 Ohio	2 shallow	
1 Calumet	1 green	1 Ottanquechee	1 Shannon	1 Ware
1 camping		1 Owassco	2 shining	303 water
1 canal	33 Hudson		4 ship	3 well
3 canoe		1 Pacific	1 ships	2 wet
1 canoeing	1 island	2 peace	1 slide	3 white
1 Chignagnette		1 Piscataque	1 sky	5 wide
1 cliffs	1 Jordan	1 plain	2 slow	2 winding
1 commerce		1 pleasure	1 small	1 winds

## 28. WHITE

1 almost	1 cerement	35 dark	1 glare	1 lovely
2 apron	1 chair	1 darkness	1 good	
	3 chalk	1 day	2 gray	2 man
1 baby	1 cheerful	1 daylight	6 green	1 marble
1 beach	1 cherries	2 dazzling		9 milk
1 beautiful	10 clean	1 delicate	1 hall	1 Mountain
1 beauty	2 cleanliness	2 dove	2 handkerchief	1 Mountains
1 bird	1 cleanness	34 dress	1 hands	3 muslin
— 308 black	2 clear	1 dresses	1 hard	
1 bleached	17 cloth		2 horse	1 napkin
9 blue	1 clothing	2 easy	4 house	1 nearly
1 boat	4 cloud	1 evening		2 nice
1 Bob	2 clouds		1 innocence	
1 body	1 coat	1 face		5 paint
1 bride	170 color	2 feathers	1 lady	2 pale
4 bright	1 colored	2 flag	1 lawn	17 paper
1 brightness	11 colorless	2 flower	1 lead	1 pencil
1 Broadway	3 cotton		1 lemon	2 person
2 brown	1 cream	2 garment	1 lie	1 pigeon
	2 curtain	1 ghost	51 light	2 pink
2 cat	1 curtains		3 linen	1 pleasing

1 powder	1 rightness	1 silvery	1 space	1 tile
1 pretty	2 rose	1 simple	1 spread	1 trees
20 pure		1 skirt	2 still	1 trousers
19 purity	1 sand	2 sky	1 summer	
	1 Sarah	91 snow	1 sunlight	2 waist
1 race	1 shade	1 snowflake	1 swan	6 wall
7 red	6 sheet	1 snowy		1 wash
1 restful	1 shoes	1 soft	4 tablecloth	2 wedding
1 retired	1 shroud	1 soul	1 tent	
1 ribbon				7 yellow

## 29. BEAUTIFUL

1 admirable	1 divine	86 handsome	1 nicely	1 sculpture
1 admiring	2 dress	1 happy	1 night	1 sensitive
1 aesthetic		1 hard	1 noble	1 shapely
1 all	1 earth	1 hateful		1 sight
1 ancient	5 elegant	2 heaven	1 object	16 sky
2 appearance	1 enjoyed	1 heavens	3 ocean	1 soft
6 art	1 ethereal	1 hideous		1 sometimes
1 artistic	2 Eunice	2 hills	2 Palisades	1 soothing
1 article	1 Evelyn	27 homely	1 pansies	1 sorrowful
1 attractive	1 everything	1 horrible	1 park	8 splendid
	4 exquisite		3 peacock	1 statue
1 baby	1 eye	1 joy	1 perception	1 straw
1 bird	2 eyes		3 perfect	2 summer
1 birds		1 kind	1 perfection	1 sun
1 brilliant	3 face		2 person	8 sunset
1 building	5 fair	5 lady	19 picture	1 sunshine
2 butterfly	1 falls	1 lake	4 pictures	1 superb
	2 fancy	7 landscape	1 place	1 supreme
1 carpet	1 fascinating	1 lightness	2 plain	4 sweet
1 carving	8 fine	1 long	14 pleasant	1 symphony
7 charming	18 flower	1 look	16 pleasing	
6 child	42 flowers	1 looks	2 pleasure	2 things
1 city	1 foliage	1 looking	— 113 pretty	4 tree
1 classic	1 forest	2 lovable		10 trees
1 clear	1 Formosa	64 lovely	1 queen	2 ugliness
1 clouds	1 fragrant	1 luxurious	1 rainbow	66 ugly
1 color	2 friend		1 religion	
1 colors		10 magnificent	1 resplendent	1 vanity
3 comely	1 gift	2 maiden	1 ribbon	1 verdure
1 common	24 girl	2 man	1 rich	1 violets
3 complexion	2 glorious	1 mansion	1 robin	
1 conceited	2 God	1 money	6 rose	4 weather
3 country	4 good	1 morning	2 roses	1 wife
1 curtain	2 gorgeous	2 mountain		29 woman
	1 graceful	6 mountains	1 sad	1 women
1 dainty	40 grand	4 music	1 satisfaction	1 wonderful
7 day	2 grandeur	1 myself	1 scarce	2 world
1 delicious	1 grass		1 scene	
5 delightful	1 grounds	16 nature	23 scenery	1 you
1 description		1 Niagara Falls	1 school	
1 desire	1 hand	73 nice		

## 30. WINDOW

12 air	1 danger	2 lattice	20 sash	2 sunshine
1 airing	2 dirty	1 ledge	2 scene	
1 airy	57 door	186 light	3 scenery	1 thing
2 aperture	1 doors	15 look	2 school	1 translucent
1 awning	1 doorway	5 looking	1 screen	1 transom
	1 draught	1 low	1 screens	24 transparent
1 bars			1 seat	2 trees
4 blind	1 eyes	1 Newcastle	9 see	
1 breeze			8 shade	2 useful
3 bright	1 few	1 object	2 shades	
2 broken	5 frame	19 open	1 shed	1 vast
		1 opened	1 shining	5 ventilation
1 cage	1 garden	16 opening	7 sight	2 ventilator
3 casing	— 316 glass	1 outdoors	1 slightly	15 view
1 children	1 glasses	5 outlook	13 sill	1 viewing
1 church			1 sky	1 visible
6 clean	4 hole	82 pane	3 skylight	1 vision
1 cleaner	1 home	6 panes	1 small	
7 clear	22 house	1 picture	1 square	4 wall
1 colored		1 porch	2 stained	1 wash
1 cool	1 joyful		1 stop	2 wide
13 curtain		1 rain	1 street	2 winter
4 curtains	2 landscape	1 rock	1 structure	1 wood
	11 large	3 room	3 sun	



## 31. ROUGH

4 bad	2 earth	1 knife	5 ragged	3 street
1 bag	2 easy	1 lake	1 railway	6 surface
1 ball	2 even	1 land	1 rasp	
1 basket		3 level	5 ready	4 table
1 bear	1 face	1 rider	1 refined	1 tempestuous
1 blisters	1 fast	1 luck	1 rider	1 tongue
1 blow	7 file	1 lump	1 riders	2 touch
10 board	2 fine		1 river	2 tough
1 boards	6 floor	8 man	21 road	1 towel
4 boisterous	2 football	1 manner	5 roads	4 tramp
2 bold	1 forest	1 manners	10 rock	1 trouble
4 boy		1 material	10 rocks	1 tumble
4 boys	1 gambler	1 me	12 rocky	1 turbulent
1 bristle	1 genteel	1 mean	1 rowdy	
2 brush	8 gentle	3 mild	1 ruddy	4 ugly
3 brutal	1 girl	6 mountain	7 rude	4 uncomfortable
1 brutality	1 granite	1 mountains	1 rudeness	4 uncouth
1 bumpy	1 granular		1 rug	1 uneasy
	1 grater	1 nice	22 rugged	38 uneven
2 calm	1 grating	1 noisy	1 ruggedness	1 unfairness
1 careless	1 gravel		1 Russian	1 unfinished
2 carpet	8 ground	1 obstetricians	1 rut	7 unpleasant
1 chaps		27 ocean		1 unsatisfactory
4 cloth	1 hairy	1 orange	5 sand	1 untaught
29 coarse	1 hall		13 sandpaper	
1 coarseness	2 hand	1 paper	1 savage	1 voices
1 cobblestones	38 hard	1 pavement	15 sea	2 voyage
1 cold	1 hardness	1 peasant	1 sedate	5 vulgar
2 country	10 harsh	1 pebbles	1 scratch	
2 crooked	1 harshness	2 person	1 shock	2 walk
1 cross	1 haste	1 picture	1 sliver	1 wall
1 cruel	2 hill	1 pineapple	1 slow	1 washing
	2 hills	2 plane	346 smooth	21 water
1 desert	5 hilly	1 plank	3 smoothness	5 waves
1 difficult	1 horrid	1 play	4 soft	1 weary
1 dirt	1 house	1 poor	1 sponge	4 weather
3 disagreeable		1 porcupine	1 stern	1 west
1 discomfort	3 ice	1 push	1 sticky	2 wild
1 discouraging	1 impertinent		12 stone	2 wind
1 dog	1 injurious	1 quality	8 stones	1 winds
1 dress	2 iron	1 quiet	7 stony	7 wood
3 dry	2 irregular	1 quite	5 storm	1 woodsman
1 dull		1 stormy	1 straight	1 work
	1 jagged	1 radiator		1 world
				1 wrong

## 32. CITIZEN

14 alien	1 commander	1 fine	1 inhabit	2 men
5 America	3 community	2 five	23 inhabitant	1 merry
35 American	1 comrade	1 fool	1 invader	1 moral
3 Americans	1 conspirators	1 foreign	1 Italian	1 Mr. A.
1 army	1 constitution	10 foreigner		1 Mr. C.
1 arrived	1 cosmopolitan	1 free	2 justice	1 Mr. S.
	1 countrified	2 freeman		1 municipal
4 belong	17 country	1 friend	1 K.	1 myself
1 belonging	7 countryman	1 friendship	1 king	
1 beloved	1 criticise			1 name
1 beneficial		1 gardener	1 large	1 nationality
1 bird	1 democrat	8 gentleman	11 law	25 native
3 born	2 duties	3 German	1 laws	1 natural
1 Brooklyn	3 duty	25 good	3 lawyer	1 naturalisation
1 brother	1 dweller	6 government	1 leader	5 naturalized
1 business	1 dwelling	1 green	1 leading	1 navy
			1 legislature	1 near
1 C.	1 ear	1 helper	1 Lincoln	3 neighbor
1 candidate	1 election	3 home	1 little	1 newspaper
1 capital	1 eligible	2 honest	1 live	4 New York
1 cat	2 emigrant	1 honor	1 lives	1 noble
1 cistern	2 emigration	2 honorable	3 loyal	2 nobleman
1 citizenship		3 human		1 nonsense
27 city	1 F.		7 male	
4 civics	1 faithful	1 I	278 man	1 obedient
2 civilian	1 farm	1 immigrant	1 manhood	1 obey
4 civilized	3 farmer	1 independence	6 mayor	1 occupant
1 clothes	3 fellow	1 Indian	1 me	2 office
1 club	2 fellowship	4 individual	5 member	1 officer

1 old	4 politician	1 righteousness	1 suburban	1 unit
1 orderly	1 politicians	2 Roman	3 suffrage	19 United States
1 outlaw	8 politics	2 Roosevelt	2 suffragette	2 useful
	1 poor	1 ruler		
2 paper	4 president		3 Taft	2 village
2 papers	1 proud	1 season	1 Tammany	13 vote
1 patrician		1 ship	1 taxes	4 voting
2 patriot	1 relative	5 soldier	1 Teddy	35 voter
2 patriotic	3 republic	10 state	1 thoughtful	
1 peasant	1 republican	5 statesman	1 tough	1 Washington
41 people	2 residence	1 stationed	5 town	2 woman
64 person	20 resident	1 straight	5 townsman	2 work
1 plebeian	1 respectable	5 subject		
2 policeman	1 revolution		2 undesirable	1 years

## 33. FOOT

2 anatomy	1 finger	1 labor	1 pedant	1 standard
2 animal	1 firm	1 lame	1 pedestal	6 step
11 ankle	1 flat	14 large	1 pedestrian	1 stepping
2 appendage	6 flesh	54 leg	5 person	2 stocking
11 arm	1 football	1 legs	1 plaster	1 stone
	3 foundation	2 length		1 strength
1 baby's		58 limb	2 quadruped	1 strong
1 base	1 gear	2 long		1 stumps
1 bicycle	1 girls		1 rheumatism	1 support
2 big	1 going	5 man	1 right	1 swiftness
3 black	1 good	3 measure	1 rubber	
34 body	2 ground	10 member	4 rule	1 three
4 bone		1 mine	1 ruler	5 tired
5 bones	185 hand	1 Miss F.	2 run	30 toe
6 boot	5 hands	2 movement		41 toes
1 bottom	7 head	1 music	1 shape	2 travel
1 broken	3 heel		146 shoe	1 trod
1 brown	1 help	1 nail	17 shoes	1 twelve
	1 helper	1 naked	4 short	1 two
1 careful	1 horse	2 necessity	1 size	
3 comfort	1 house	1 needful	1 skin	5 useful
3 corn	1 human		2 slipper	
2 corns	1 humility	1 organ	22 small	1 velocity
	1 hurt		1 sole	
1 dainty		1 pain		106 walk
1 difficult	3 inch	1 painful	1 speed	88 walking
1 distance	2 inches	2 part	1 stability	1 warm
		1 pavement	6 stand	
1 expansive	4 kick	3 pedal	1 standing	1 yard
9 extremity	2 knee			

## 34. SPIDER

1 abhorrence	1 crawls	4 flies	3 nasty	1 stung
1 afraid	11 crawling	136 fly	1 nest	1 study
38 animal	1 crawly	1 fright	2 net	
1 annoyance	2 creature	1 fry	1 nuisance	3 tarantula
3 ant	6 creep	1 frying		1 thing
2 arachnida	1 creeps		1 objectionable	2 thread
1 arachnoid	7 creeping	1 grass	1 obnoxious	1 tortoise
1 awful	1 creepiness		1 octopus	1 treachery
	5 creepy	1 harlequin		1 tree
3 bee	2 cricket	1 harmful	1 pain	
2 bees	1 cringe	1 horrible	1 pan	6 ugly
4 beetle	1 cross	4 horrid	1 pest	1 undesirable
1 big	1 crow	3 horror	10 poison	1 unpleasant
2 bird	1 cunning		1 poisonous	
20 bite		1 industry	1 pretty	2 venomous
8 black	1 daddy-long-	276 insect		1 vermin
1 breakfast	legs		1 rats	
58 bug	1 danger	1 jumping	2 Robert Bruce	1 walk
2 bugs	4 dangerous		1 roach	1 wall
5 butterfly	2 dark	5 large	1 room	6 wasp
	1 dirty	3 leg		1 watching
1 camp	3 disagreeable	27 legs	1 shivers	2 weaves
3 caterpillar	1 displeasure	1 loathsome	1 shudder	1 weaving
1 centipede	1 dread	1 long	1 sinister	188 web
1 chills			2 small	3 webs
1 climb	1 evil	1 Miss Muffet	1 snake	1 wiggly
12 cobweb		1 mosquito	1 snakes	4 worm
2 cobwebs	3 fear	1 moth	1 sparrow	
1 country	1 fish	1 movements	7 sting	1 young
14 crawl			1 stings	

## 35. NEEDLE

3 article	2 dressmaker	4 knitting	1 pincushion	1 stitching
1 blood	1 embroidery	1 labor	40 point	1 surgeon
2 book	17 eye	1 long	9 pointed	
1 broken			10 prick	1 tailor
1 button	3 fine	1 magnetic	1 pricks	2 thick
1 buttons		1 material	2 pricking	15 thimble
	1 handy	1 mending	134 sew	2 thin
1 camel	1 help	3 metal	1 sews	100 thread
4 cloth	1 hole		107 sewing	5 tool
2 clothes	1 home	1 nail	152 sharp	1 use
2 coat	1 housewife	1 ornament	4 sharpness	1 using
7 cotton	2 hurt		1 shiny	12 useful
1 crocheting	2 hypodermic	1 patching	1 slippers	
1 cut		147 pin	2 small	1 weapon
4 darning	5 implement	11 pins	53 steel	1 wire
1 diligence	26 instrument		2 sting	1 woman
				6 work

## 36. RED

1 aggravating	1 cheeks	1 fright	1 jacket	2 rug
1 anarchist	1 cheer	2 flower		
2 anger	1 cherries	1 flowers	1 lavender	3 scarlet
13 apple	1 closet	1 flushing	1 light	1 shoe
3 apples	8 cloth		1 lips	2 sky
	1 clouds	1 garment		1 smooth
1 ball	2 coat	3 garnet	1 maroon	1 soldier
1 banner	254 color	1 gaudy	1 Mars	1 spots
2 barn	1 colors	2 glaring	1 mixture	1 story
2 beauty	1 colored	1 glass	1 moon	5 sun
1 becoming	1 coloring	1 globe		8 sunset
61 black	1 comfortable	1 glow	1 object	1 sweater
71 blood	1 Cornell	1 gram	1 objectionable	
1 bloody	1 cow	80 green	1 offensive	1 tablecloth
1 blossom	2 crimson		1 orange	4 thread
99 blue	2 curtain	6 hair		1 tie
8 book		1 handsome	5 paint	1 tomatoes
1 bravery	14 danger	1 hat	4 paper	2 turkey
3 brick	6 dark	2 head	1 pawson	
2 bricks	1 dashy	1 healthy	1 pencil	1 vivid
40 bright	1 dislike	4 heat	1 pink	
2 brightness	18 dress	1 Hereford	1 plush	1 war
3 brilliant		1 holly	1 polinaetia	6 warm
1 brook	1 eat	1 hood	2 pretty	3 warmth
7 brown	1 Ed	1 horse	0 purple	1 whiskey
1 building		5 hot		97 white
2 bull	2 fiery	2 house	2 ribbon	1 wool
	81 fire		1 riding	1 world
1 cap	16 flag	2 Indian	2 robin	
1 cape	3 flannel	4 ink	15 rose	1 yarn
1 carpet	1 flashy	1 iron	2 rosy	15 yellow
1 ceiling				

## 37. SLEEP

94 awake	2 dead	4 eat	1 habit	1 midnight
1 awaking	7 death	1 enjoyable	1 happiness	1 myself
3 awaken	5 deep	1 enjoyment	3 health	
1 awakening	1 desire	1 enough	1 heavy	1 natural
	1 desperate	1 experiment	1 home	4 necessary
2 baby	1 dope	10 eyes		1 need
1 beautiful	2 dormitory	1 fast	2 insomnia	1 needful
75 bed	1 dose	2 fatigue	1 lady	1 nice
1 bedstead	4 doze	1 fine	1 leisure	40 night
	28 dream	2 forgetfulness	1 lain	
2 calm	10 dreams		3 lie	1 peace
1 chance	6 droway	1 gentle	1 lying	1 peaceful
2 child	8 drowsiness	1 girl	1 luxurious	2 peacefulness
1 children	1 dullness	1 go	1 luxury	1 perfect
1 coma		5 good		5 pillow
30 comfort	8 ease		1 mesmerism	8 pleasant
	4 easy			1 plenty

1 poorly	2 refreshment	1 senses	1 song	60 wake
1 potassium bro-	1 relax	1 Shakespeare	2 soothing	4 wakefulness
mide	31 repose	1 sheet	16 sound	1 wakened
2 profound	~300 rest	1 shut	3 soundly	1 wakening
	14 resting	1 silence	2 still	4 waking
8 quiet	9 restful	1 sleeplessness	3 sweet	2 walk
2 quietness	4 restless	1 sleepy		1 wanting
1 quietude	1 restore	20 slumber	1 thinking	1 watchful
	2 restorer	2 slumbering	26 tired	3 weariness
1 rage	1 retiring	4 snore	1 tiresome	1 weary
2 recline	1 rise	1 soft		1 well
1 reclining	1 rising	1 solace	12 unconscious	1 woman
7 refreshing			7 unconsciousness	

## 38. ANGER

1 abuse	5 disturbed	1 horror	1 nonsense	1 slow
1 aggravated	4 dog	3 hot	1 not	2 smooth
2 aggravation	1 downhearted	1 hot-headed	1 noticeable	1 sober
1 agony	1 duel	1 house		1 soft
2 amiability		1 humor	1 obey	1 soldier
1 amiable	3 emotion	1 hunger	1 out	1 sometimes
6 angry	2 enemy	1 hysteria	1 outrage	1 soothing
2 anguish	1 energy			10 sorrow
1 annoyance	1 enmity	1 ill	1 pain	1 spite
3 annoyed	1 excitability	4 impatience	51 passion	1 spiteful
1 appearance	3 excited	3 impatient	1 passionate	1 storm
1 aroused	4 excitement	1 Indian	3 patience	1 strike
1 awful	1 exclamation	1 indignant	6 peace	1 strong
		2 indignation	1 peaceful	1 suffering
13 bad	1 face	1 insanity	1 peevish	1 sulky
2 bitter	1 father	1 insult	2 person	1 swear
3 bitterness	9 fear	1 insulted	1 placid	1 sweetness
1 blow	4 feeling	1 intense	5 pleasant	1 sword
1 blows	1 ferocity	1 intensity	4 pleasure	
1 blush	1 fierce	1 intoxication	2 provocation	1 talking
3 boy	1 fiery	2 ire	1 provoke	2 teacher
1 breathing	8 fight	1 irritable	1 provoked	1 tears
	1 fighting		2 provoking	--149 temper
7 calm	1 fist	1 jealousy		1 temperament
1 calmness	1 flush	1 Jimmy	3 quarrel	1 terrible
2 cat	1 foolish	4 joy	2 quarreling	1 terror
1 catching	3 foolishness	1 joyful	1 quarrelsome	3 thought
2 cause	1 force	1 judgment	4 quick	1 torment
1 character	1 forgive		1 quickness	6 trouble
1 cheer	3 forgiveness	2 kind	6 quiet	1 turbulent
1 child	1 frenzy	2 kindness	1 quietness	1 turmoil
1 children	1 fret		1 quite	
1 choler	1 fright	1 laughter		1 ugliness
1 cold	1 frown	1 light	16 rage	4 ugly
3 command	1 frowning	2 lion	1 rarely	1 unbecoming
1 compose	1 fun	1 little	1 rashly	1 uncomfortable
5 control	2 furious	3 loud	1 rashness	1 unhealthy
1 cool	4 fury	5 love	1 raving	4 unpleasant
1 cranky		1 low	1 reason	
1 crazy	2 gentle		3 red	1 very
44 cross	3 gentleness	121 mad	1 remorse	3 vexation
2 crossness	1 giant	1 maddest	2 resentment	13 vexed
1 covetous	1 girl	19 madness	1 resistive	1 vicious
1 cruel	4 glad	2 malice	1 rest	1 violence
1 cry	2 gladness	6 man	1 restless	2 violent
	2 good	1 mean	8 revenge	1 voice
1 danger	1 great	4 meekness	2 riled	
1 deliberation	3 grief	1 mild	3 rough	1 war
1 despise	1 grieve	4 mind	1 roughness	5 wicked
1 devil	2 grouchy	2 mirth	1 rude	1 wickedness
4 disagreeable		2 myself		1 wish
1 disappointed	4 happiness		1 sad	
2 disappointment	2 happy	1 name	2 scold	4 woman
3 discomfort	3 harsh	1 nature	2 scolding	1 words
1 dishonor	2 haste	1 nerves	1 scowl	52 wrath
1 dislike	3 hasty	1 nervous	1 sedative	1 wrathful
1 disobedience	9 hate	1 never	1 selfishness	2 wroth
1 disobedient	1 hateful	1 nice	1 sharp	4 wrong
2 displeased	26 hatred	2 noise	1 shorn	
2 displeasure	1 headache	1 noisy	1 sick	1 yelling
3 disturbance	1 horrid	1 none	1 sin	

## 39. CARPET

1 appearance	1 curtains	8 green	1 pattern	10 sweeper
1 article	1 dark	1 hall	1 pennant	
1 beat	6 design	3 heavy	1 pleasant	1 table
2 beating	1 designer	4 home	2 plush	8 tack
1 beater	2 dirt	4 house	4 pretty	3 tacks
2 beautiful	1 down		2 protection	2 tapestry
1 beautifying	1 drag	2 ingrain	1 quick	2 textile
2 beauty	1 dullness			2 thread
1 bedroom	4 dust	1 lay	7 rag	2 tread
2 blue	1 duster	1 loom	3 rags	2 use
2 bright		1 lot	1 ragged	1 useful
1 broom	3 ease	3 luxury	8 red	
2 brown	1 electric		1 reddish	9 velvet
1 brush	1 expense	6 mat	1 refinement	
1 brushes		3 material	1 rich	15 walk
14 Brussels	2 fancy	10 matting	17 room	6 walking
	3 figure	1 mattress	2 rough	1 wall
1 chair	1 flat	1 microbes	163 rug	1 Wanamaker
1 chairs	256 floor	1 moss	14 rugs	2 warm
3 clean	2 flooring			5 warmth
2 cleaning	2 foot	1 nail	1 shoes	1 weaver
1 cleaner	1 fur	1 neatness	1 small	1 weaving
20 cloth	1 furnishing	2 nice	8 smooth	1 wear
6 color	4 furniture	1 none	78 soft	1 white
1 colors			4 softness	1 wide
15 comfort	1 germs	7 oilcloth	2 stairs	1 wood
3 comfortable	2 good	1 oriental	1 stove	10 wool
2 cotton	4 goods	2 ornament	1 straw	7 woolen
27 cover	1 grain		7 sweep	1 worsted
76 covering	1 gray	3 parlor	3 sweeping	2 woven

## 40. GIRL

1 ankles	2 cute	3 hair	7 maid	6 sister
1 Annie		1 hand	13 maiden	2 sixteen
1 associate	2 dainty	5 handsome	1 maidenhood	1 skirts
	1 damsel	1 happiness	1 male	1 slender
1 baby	1 dance	1 harmlessness	7 man	1 slight
1 Beatrice	1 dancing	1 has	1 men	1 slim
8 beautiful	2 daughter	3 hat	1 meek	8 small
6 beauty	1 delight	1 head	1 mischievous	1 smart
9 being	1 diabolical	1 here	4 miss	1 smartness
1 belt	1 domestic	1 hood	1 Miss S.	1 student
1 big	1 Doris	1 hoop	1 modesty	1 studious
1 biped	1 Dorothy	7 human	2 mother	3 study
1 blonde	1 dream	1 humanity	3 myself	1 stylish
1 blooming	8 dress			1 summer
1 book	4 dresses	1 immature	2 neat	4 sweet
350 box		2 infant	2 necessity	1 sweetness
8 boys	1 Effie	3 innocence	11 nice	2 sweetheart
2 braids	1 Ethel	1 innocent	2 niece	
1 bright	1 eyes	1 intelligent	1 noise	1 talks
		1 Irene		4 tall
1 changeable	1 fair		1 Pelar	1 thoughtless
1 cheerful	2 fellow	1 jealousy	18 person	
49 child	77 female	2 jolly	1 petticoats	1 ugly
2 children	3 feminine	2 joy	2 play	1 useful
2 childhood	3 flesh		4 pleasure	
1 childish	1 flirtation	1 kid	20 pretty	1 vanity
1 choice	1 Frances		1 pupil	2 virgin
1 class	7 friend	20 lady		
1 classmate	1 futurity	1 large	1 quick	1 walk
1 clever		1 lassie	1 rarely	1 water
4 clothes	1 garden	1 learning	1 running	2 weak
1 clothing	1 gay	8 little		1 white
1 Coleen	1 gentility	1 lively	1 saucy	1 wife
1 college	1 gentle	1 Lizzie	19 school	61 woman
2 companion	1 Gertrude	3 love	3 servant	
1 cook	6 good	1 loving	4 sex	31 young
1 cunning	1 grace	4 lovely	1 shirk	1 youngster
2 curls			4 silly	24 youth

## 41. HIGH

9 above	2 dizzy	24 house	16 mountains	1 staff
5 air		1 houses	1 myself	1 stand
1 Alps	11 elevated			13 steep
14 altitude	2 elevation	1 ideal	1 notion	12 steeple
1 ascend	1 erect	1 ideas		1 stick
	2 exalted	1 immense	4 peak	1 stone
1 bank	1 extended		1 pine	1 summit
1 beam		2 jump	1 pinnacle	2 swing
1 beanstalk	3 fall		1 play	
3 big	2 falling	1 kite	8 pole	57 tall
1 bridge	1 far	2 ladder	1 power	1 temperature
24 building	1 fast	5 large	3 precipice	1 temple
2 buildings	2 fear	7 length		5 top
	1 feet	1 lighthouse	2 reach	12 tower
1 Cathedral	3 fence	20 lofty	1 rich	19 tree
4 ceiling	1 first	7 long	1 rocky	4 trees
2 chair		— 328 low	3 roof	
2 church	2 giant		1 room	26 up
1 cliff	1 great	1 magnificent		1 upward
1 climb		1 man	1 see	
1 climbing	1 hat	2 mast	1 shallow	1 valley
7 clouds	1 heaven	1 measure	3 short	1 vision
	3 heavens	3 medium	1 skies	
5 deep	1 heavenward	1 Metropolitan	17 sky	5 wall
4 depth	14 height	1 mind	2 skyscraper	1 waves
1 dimension	20 hill	2 monument	1 small	2 wind
11 distance	4 hills	1 mount	1 soft	1 woman
3 distant	1 hot	157 mountain	1 spire	

## 42. WORKING

1 accomplish	2 earning	2 horse	1 making	1 prosperous
1 accomplishment	2 ease	1 hour	50 man	
3 active	1 easiness	1 house	8 men	1 quick
1 activity	4 easy		1 model	
1 always	2 eating	44 idle	4 money	1 railroad
1 ambition	1 effort	10 idleness	1 morning	1 reading
5 ambitious	10 employed	2 idling	3 motion	1 recreation
1 anxious	1 employers	1 inconvenience	2 movement	17 rest
1 apron	4 employment	1 indolent	5 moving	24 resting
1 attendant	2 energetic	13 industrious	1 mowing	1 result
	3 energy	8 industry	2 myself	1 rowing
1 bent	2 engaged	1 intelligent		3 running
1 book	1 English	1 interest	4 necessary	
2 boy	1 essay	2 Italian	1 necessity	1 salary
2 broom	15 exercise	1 job	1 neighbor	1 satisfaction
6 business	1 exercising		1 never	1 saving
51 busy	3 exertion	1 keeping	1 night	6 school
			1 noble	3 scrubbing
1 carpenter	3 factory	— 147 labor	1 nothing	2 servant
3 class	2 fair	20 laboring	1 nursing	1 setting
1 comfort	1 faithfully	1 labors		7 sewing
1 complication	1 farm	5 laborer	1 obstetrics	2 shirking
2 content	1 fast	1 lack	13 occupation	7 shop
2 continually	3 father	1 ladies	1 occupied	1 shorthand
1 continuous	7 fatigue	1 late	1 occupy	1 sickness
1 cooking	2 fatigued	2 laziness	2 order	1 singing
	1 field	18 lazy		3 sitting
6 day	1 flowers	1 leisure	1 paid	4 slave
1 difficult	1 foundry	1 Lillie	1 patients	1 slavery
1 digging	1 function	1 little	5 people	1 slaving
1 diligence		1 live	2 person	2 sleep
1 discomfort	2 girl	2 livelihood	1 perspiration	8 sleeping
2 do	4 good	5 living	8 play	1 slow
10 doing		1 loaf	22 playing	1 smart
1 done	2 hammer	5 loafing	1 pleasant	1 starving
1 drawing	3 hands	1 loafer	4 pleasure	2 steady
1 driving	1 happiness	1 lounging	1 plow	1 stenographer
1 drudge	105 hard		1 plowing	2 strenuous
1 dusting	2 health	2 machine	1 policy	1 struggle
1 duties	1 healthy	1 machinery	1 position	5 study
2 duty	1 hoeing	1 machinist	1 possession	5 studying

1 sweep	1 thought	9 toiling	2 unemployed	1 weariness
3 sweeping	1 time	2 tools	2 useful	2 willing
1 swift	28 tired	1 treadmill		2 woman
	3 tiresome	1 trouble	4 wages	1 work
1 table	1 tiring	2 trying	2 walking	1 workman
2 task	1 to-day	1 typewriter	1 washerwoman	1 world
1 thinking	7 toll		5 washing	2 writing

## 43. SOUR

1 acetic	1 delight	1 juice	15 pickle	1 stomach
23 acid	18 disagreeable		26 pickles	2 sugar
1 acrid	1 dislike	2 kraut	1 pleasant	— 349 sweet
1 anger	3 disposition		1 plum	
1 angry	4 distasteful	78 lemon	1 plums	17 tart
27 apple	1 drink	17 lemons	3 pucker	55 taste
10 apples		1 lime		2 tasting
1 astringent	1 face		3 quince	2 tasteless
	1 flavor	1 man		1 teeth
6 bad	3 fruit	81 milk	1 rancid	1 turned
1 beer			1 repulsive	1 twinge
70 bitter	1 gall	3 nasty	5 rhubarb	
1 bitterness	4 good	1 naturally	1 rough	4 ugly
	1 goodness	3 nice		1 unhappy
3 cherries	3 grape	1 no	2 salt	3 unpalatable
2 cider	36 grapes	1 nourishing	1 salty	16 unpleasant
1 cross	2 grapefruit		2 sauerkraut	1 unpleasantness
1 crowd	1 green	1 odor	1 sear	1 unsweetened
1 currants		2 orange	2 sharp	
	1 hate		1 soft	91 vinegar
1 dangerous	1 hurts	1 painful	1 song	
1 death		1 persimmon	1 spoiled	1 wholesome
				1 wine

## 44. EARTH

1 agriculture	115 dirt	1 growth	2 mould	5 sand
8 air	4 dirty		1 mouldy	81 sky
1 ashes	1 dogs	2 habitation	4 mountain	1 smelly
	4 dry	4 hard	2 mountains	3 smooth
4 ball	9 dust	81 heaven	16 mud	2 sod
3 beautiful		1 heavens		5 soft
2 big	3 farm	2 heavy	4 nature	37 soil
7 black	1 farming	1 hell		1 solid
1 body	1 fence	1 hemisphere	1 object	2 solidity
2 broken	1 fertile	3 home	1 ocean	1 space
17 brown	1 fertilized	1 house	1 one	4 sphere
1 building	4 field	1 huge	1 orange	1 star
	1 fields			2 stone
1 cemetery	1 flag	1 inhabitable	1 paradise	2 stones
71 clay	3 flour		1 place	1 street
1 climate	1 flower	28 land	17 planet	1 substance
1 cloud	8 flowers	7 large	2 plant	4 sun
1 coffin	1 foot	1 level	5 plants	3 surface
2 cold	1 foundation	3 live	1 planting	
1 color	1 fresh	2 living	1 pleasure	1 travel
2 Columbus	1 fruitful	3 loam	1 potential	4 tree
1 continent	1 Fuller's	1 lot	1 productive	5 trees
2 corn		2 low	1 put	
2 country	8 garden			1 unfertile
1 cover	1 geranium	1 man	1 rain	8 universe
1 creation	16 globe	2 map	1 rampart	
1 crunching	2 grain	3 Mars	1 rest	1 vastness
1 crushed	1 grand	1 mass	1 revolution	1 vegetable
5 crust	11 grass	1 material	4 rich	
	3 grave	1 matter	1 river	3 walk
5 damp	2 gravel	1 metal	1 road	10 water
10 dark	1 gravity	1 mine	2 rock	1 wide
1 delve	2 great	1 mineral	2 rocks	1 wood
2 depth	3 green	3 moist	61 round	46 world
1 dig	1 greenhouse	11 moon	1 roundness	5 worm
2 digging	— 166 ground	5 mother		2 worms

## 45. TROUBLE

2 accident	1 disagreeable	3 health	20 pain	1 table
4 affliction	2 disagreement	1 heart	2 patience	1 task
3 aggravation	1 disappoint	1 heaviness	2 patient	9 tears
6 anger	3 disaster	1 hemorrhage	1 patients	1 teasing
6 angry	7 discomfort	2 home	15 peace	1 temper
1 anguish	2 discontent	1 horror	3 peaceful	1 temptation
1 annoy	3 disease	1 horse	3 people	2 thought
2 annoyed	2 dislike	1 hurried	1 perplexed	1 thoughts
5 annoyance	1 disobedience	1 husband	1 perplexity	1 torment
15 anxiety	1 displeased		3 person	1 travel
2 avoid	1 displeasing	1 idea	1 pity	1 trial
	2 displeasure	2 illness	10 pleasure	3 trials
11 bad	1 dissatisfactory	1 imaginary	1 plenty	5 troublesome
1 begins	7 distress	2 inconvenience	2 poor	
1 black	2 disturbed		2 poverty	1 ugly
1 borrowed	1 doctor	9 joy	1 psychologist	1 unavoidable
1 borrows	1 dogs			1 uncertainty
4 bother		1 kindness	3 quarrel	2 uncomfortable
2 bothered	4 ease	1 kinds	3 quarreling	6 uneasiness
1 bothersome	1 easiness		3 quiet	6 uneasy
1 brains	1 easy	1 labor	1 quietness	2 unfortunate
1 brewing	1 ended	1 laugh		13 unhappiness
1 broke	1 enemies	1 lawyer	1 release	8 unhappy
1 burden	1 enemy	1 lessons	1 relief	1 unlucky
1 burdens	1 error	2 life	1 remorse	2 unnecessary
1 business	1 everywhere	1 little	1 rest	5 unpleasant
1 busy	1 exams	1 lonesome	2 reverses	3 unpleasantness
	1 excited	1 loss	1 Romeo	1 unrest
1 calm	2 excitement	5 lots	1 ruffled	1 unsafe
1 calmness				2 unsatisfactory
27 care	3 family	2 mad	6 sad	1 unsettled
3 cares	1 father	1 madness	13 sadness	2 upset
1 careless	3 fear	5 man	1 school	
4 children	1 feeling	1 many	1 scrape	1 want
1 college	1 few	2 marriage	1 sea	2 war
6 comfort	5 fight	2 me	1 seldom	1 weak
1 comforts	2 fighting	10 mind	1 serenity	3 weary
1 comfortable	1 flunking	1 minded	1 shadow	2 weeping
2 coming	1 fret	3 mischief	1 ship	1 welfare
1 consequences	1 friends	1 miserable	7 shooting	1 woe
2 contented	1 fun	14 misery	47 sickness	5 woman
1 contentment	1 funeral	6 misfortune	1 simple	1 women
1 court	3 fuss	1 misunderstanding	1 sin	8 work
1 cry		4 money	1 sleep	1 worked
1 crying	2 girl	1 monotony	1 sometimes	1 working
	2 gossip	1 mother	— 202 sorrow	3 worried
6 danger	2 great	1 Mrs. Wiggs	1 sorrows	2 worries
1 darkness	26 grief	5 much	4 sorrowful	65 worry
1 day			1 sport	1 worrying
16 death	1 handkerchief		1 squabble	5 worryment
2 deep	19 happiness	1 nervousness	1 study	2 wrinkles
2 despair	8 happy	3 no	1 suffer	2 wrong
1 difficult	5 hard	2 noise	1 suffering	
1 difficulties	6 hardship	4 none	1 sweetener	1 yesterday
1 difficulty	1 harm	1 nuisance	2 sympathy	1 youth

## 46. SOLDIER

1 academy	1 braveness	1 colonel	1 drums	1 fortune
1 armies	8 bravery	6 command	4 duty	
137 army	1 Brazilian	1 commanding		4 general
3 arms	1 brother	3 commander	1 enemy	1 Germany
1 Arnold	2 buttons	1 costume	1 England	1 glory
2 artillery		4 country	1 English	3 good
	4 cadet	5 courage	3 erect	1 Grant
1 baseball	2 camp			8 guard
8 battle	2 cannon	1 danger	1 fellow	1 guardian
1 bayonet	1 cap	2 defender	17 fight	1 guardsman
1 blood	8 captain	1 defense	1 fights	27 gun
1 blue	3 cavalry	2 discipline	12 fighter	2 guns
23 boy	14 citizen	1 disliked	12 fighting	
1 boys	8 civilian	1 double	1 firearm	1 helmet
46 brave	1 clothes	2 drill	2 fort	8 hero



1 him	2 marshal	5 patriot	1 salute	1 training
1 hobo	2 mechanic	1 patriotic	1 sentry	1 travel
1 home	17 military	1 patriotism	1 servant	1 troop
1 hurt	3 militia	3 person	1 service	1 troops
	1 murder	1 Philippine	1 show	
2 infantry	1 music	1 police	1 sick	89 uniform
	2 musket	6 policeman	1 single	1 United States
1 jacky		1 protection	1 smart	3 upright
1 Jim	1 N.	2 protector	1 sorrow	1 uprightness
	1 nation	1 proud	1 stateliness	
1 king	1 national		1 store	1 valiant
	2 navy	4 red	3 straight	3 veteran
5 lieutenant	1 necessary	1 redcoat	1 strength	3 volunteer
	1 nobility	1 regiment	1 strenuous	
		2 regular	1 strict	94 war
3 male	1 obedience	1 respectable	4 strong	1 warfare
189 man	1 obey	1 Richmond	2 sword	12 warrior
4 men	12 officer	3 rifle		3 West Point
1 manly	1 officer		2 tall	2 widow
12 march	1 order	58 sailor	1 tent	2 work
5 marching	2 orderly	1 sailors	4 tin	
1 marine				

## 47. CABBAGE

1 away	30 eat	30 head	3 onions	2 soup
	6 eating	1 heads		4 sour
1 bad	6 eatable	1 healthy	1 paper	1 spice
2 beans	3 eatables	2 heavy	1 parsley	1 spinach
11 beef		1 herb	16 patch	1 sprouts
1 beet	11 farm	1 home	48 plant	3 stalk
2 beets	1 farming	2 horrid	3 plants	1 stew
1 boiled	2 field		1 plantation	1 stinking
1 broth	2 fields	3 indigestion	1 planted	1 strong
1 bud	1 fine	1 kale	1 planting	1 sustenance
1 bunchy	4 flower	2 kraut	1 plate	3 sweet
	22 food		5 pork	
2 carrot	7 fruit	8 large	6 potato	3 taste
1 carrots		9 leaf	18 potatoes	1 tender
1 catnip	43 garden	1 purple	1 tulip	2 tomato
17 cauliflower	1 German	11 leaves		2 tomatoes
1 cigar	1 Germans	11 letters	1 quart	20 turnip
1 cold-slaw	1 goat	1 lot		6 turnips
1 cook	13 good		2 rabbit	
4 cooking	44 green	2 meal	3 red	1 unnecessary
1 corn	3 greens	2 meat	2 rose	1 unwholesome
1 cucumbers	2 ground	2 Mrs. Wiggs	4 round	
1 cut	1 grow	1 mustard		1 Valhalla
	1 grows		5 salad	304 vegetable
1 decayed	2 growing	1 nice	17 sauerkraut	10 vegetables
1 disagreeable	1 growth	1 nothing	2 slaw	4 vinegar
2 dish			11 smell	1 Virginia
1 dislike	1 ham	2 odor	1 soapy	
4 dinner	2 hard	2 onion	2 solid	1 white

## 48. HEARD

2 adamant	2 cabbage	1 earth	2 glass	1 indestructible
3 apple	1 callous	1 earthen	1 glittering	1 individual
1 apples	2 candy	17 easy	1 gold	1 indurated
	1 can't	2 egg	2 good	1 inflexible
2 bad	3 chair	1 eggs	1 granite	1 injurious
5 ball	1 character	1 examination	2 ground	1 irksome
1 baseball	7 coal			44 iron
1 bed	1 coarse	1 fare	1 hammer	
1 bench	1 cold	1 farmer	2 harsh	1 kind
1 blackboard	1 crystallized	1 feary	2 heart	
6 board		4 feeling	2 hearted	1 labor
2 boards	1 dense	11 firm	2 heavy	2 lead
1 bone	3 diamond	2 firmness	1 hickory	2 lemon
1 bread	3 difficult	1 flat	1 hurt	1 lignum-vitæ
1 break	1 disagreeable	4 flint		2 life
12 brick	1 do	16 floor	8 ice	1 low
2 brittle	1 durability	1 formidable	1 immovable	3 luck
3 bullet		1 fruit	1 impenetrable	

1 maple	2 pavement	1 rocky	1 strength	1 uneasy
3 marble	1 perplexing	11 rough	4 strong	1 unimpression-
1 mathematics	1 physics		1 stuff	able
2 mean	1 piano	1 saltpetre	6 substance	2 unpleasant
2 medium	1 principle	1 severe		1 unpliant
5 metal	1 pulpy	1 sidewalk	5 table	1 unripe
1 murder		15 smooth	1 tack	1 unyielding
1 mush	1 quality	387 soft	1 thick	1 uselessness
	1 questions	15 solid	1 tight	
1 nail		1 stale	2 touch	1 very
1 nails	1 raining	14 steel	12 tough	
1 natural	4 resistance	1 stick	2 tree	1 walnuts
1 nut	1 resistant	1 stingy	1 trouble	2 water
1 nuts	1 rigid	102 stone	1 turnip	1 wisdom
	1 road	1 stones		66 wood
1 oak	38 rock	1 stony	5 unbreakable	19 work
1 opaque	4 rocks	2 stove	5 uncomfortable	2 working

## 49. EAGLE

8 air	1 cruelty	1 graceful	3 paper	1 spread
1 altitude	4 dollar	1 gray	1 parrot	11 strength
7 America	5 dove	1 great	1 partridge	3 strong
12 American			1 peacock	1 sun
4 animal	1 eggs	18 hawk	2 pigeon	3 swallow
1 aspiring	8 emblem	1 height	2 power	1 swan
	12 eye	21 high	5 prey	4 swift
1 bald	1 eyed		1 quail	1 swiftness
8 beak	1 eury	1 insect	1 quarry	1 sword
2 breast		1 insignium		
2 bill	1 falcon	1 keen	1 robin	1 talon
568 bird	7 feathers	4 king	1 rock	1 talons
6 birds	1 fierce			1 tern
1 birdie	2 flag	9 large	1 scarce	1 Times
1 black	6 flies	1 lark	3 sharp	1 turkey
1 butterfly	22 flight	1 liberty	1 sight	
2 buzzard	1 flint	2 lofty	2 sky	2 United States
	46 fly		2 sly	3 vulture
1 carnivorous	23 flying	2 might	5 soar	
1 carrion	2 flyer	14 mountain	8 soars	8 wing
1 chickens	3 fowl	8 mountains	14 soaring	16 wings
2 claws	3 freedom		1 solitude	
1 clouds		12 nest	1 space	1 young
1 contour	1 glare		6 sparrow	2 Zoo
1 crag	1 glorious	4 owl	1 sport	
3 crow	2 golden			

## 50. STOMACH

32 abdomen	3 cancer	1 dress	5 gastric	2 internal
81 ache	1 care	1 duodenum	1 Gertrude	28 intestine
21 anatomy	2 careful	4 dyspepsia	4 good	32 intestines
2 animal	1 cat		1 grind	
5 appetite	1 cavity	45 eat	2 grinding	1 juice
1 apples	1 chart	27 eating		
2 arm	18 chest	8 empty	2 hand	4 large
	1 coll	1 engine	1 hands	1 leg
1 back	2 condition	1 excellent	9 head	1 limb
1 bad	1 contain		5 health	18 liver
7 bag		1 face	24 heart	1 living
1 basket	1 delicate	1 fat	1 hog	1 lung
2 beast	1 diaphragm	1 feed	6 hunger	3 lungs
1 beef	6 digest	1 feeding	6 hungry	
6 belly	1 digesting	1 feet	2 hurt	1 machinery
1 belt	50 digestion	102 food	1 hurts	5 man
1 biology	8 digestive	2 foot	1 hygiene	1 meal
99 body	2 digests	1 flesh		1 meals
18 bowels	7 dinner	1 frame	1 illness	5 member
1 brain	1 disease	1 front	17 indigestion	1 milk
1 bread	1 distress	7 full	6 inside	1 mortal
1 breast	2 doctor	1 function	2 interior	3 mouth
				1 muscle

2 nausea	28 pain	3 receptacle	1 specimen	5 troublesome
3 necessary	3 part	2 reservoir	1 strong	1 trunk
1 necessity	9 person	1 rest	1 suffer	3 tube
1 neck	3 physiology	3 round	1 suffering	
1 nuisance	1 picture		1 sustenance	1 upset
	2 poor	1 self	2 system	1 useful
1 object	1 portion	10 sick		
1 oblong	4 pouch	7 sickness	1 tender	2 vessel
4 oesophagus	1 psychology	1 skin	1 tenderness	
81 organ	3 pump	2 small	1 thought	1 want
3 organs	2 punch	4 soft	1 throat	1 water
1 overeating		1 sore	2 tongue	3 weak
1 overloaded	1 receiver	2 sour	25 trouble	1 weakness
			1 troubles	1 work

## 51. STEM

1 anything	1 ending	1 leg	3 piece	1 stiff
1 appendage	1 evolution	3 length	70 pipe	1 stone
43 apple		1 lettuce	1 pit	1 stop
1 apples	1 fibre	1 life	74 plant	1 storm
	2 fibres	2 light	1 plow	2 straight
1 base	1 finger	1 lily	6 point	8 support
3 beginning	259 flower	4 limb	1 poppy	
1 blade	7 flowers	1 living	1 projection	4 thin
3 blossom	2 foundation	18 long	1 prop	2 thorn
1 boat	14 fruit			2 tide
1 body		1 match	1 reed	1 tobacco
1 brain	1 grass		1 river	1 top
33 branch	9 green	1 necessity	1 rod	44 tree
1 branches	3 growth		27 root	2 trees
1 broad		1 object	1 roots	3 trunk
1 broom	20 handle	1 offshoot	21 rose	7 twig
4 bud	1 hard	1 organ		
5 bush	1 head		2 shank	1 valve
1 butt	2 hold	4 part	6 short	1 violet
	1 holding	1 parts	7 slender	3 vine
2 cane	4 holder	1 particle	1 small	
2 cherry	1 holes	2 peach	1 smoke	7 watch
3 connection		9 pear	1 soft	2 water
1 connects	1 join	1 peduncle	21 stalk	3 weed
2 cord		3 pencil	2 steps	3 wind
2 core	96 leaf	4 petal	6 stern	2 winding
	4 leaves	1 pick	14 stick	3 winder
10 end				4 wood

## 52. LAMP

1 Aladdin	1 crockery	8 glass	1 match	1 shadow
1 arc		7 globe		1 small
6 articles	1 dangers		1 nickle	4 smoke
	3 dark	3 high	4 night	1 smokes
5 black	2 darkness	1 home		1 smoking
1 blaze	1 daylight	1 hot	49 oil	1 smoky
1 brass	1 distance	1 house	1 ornament	2 stand
12 bright	1 dull			1 stove
3 brightness		2 illumination	1 petroleum	1 student
20 burn	5 electric		5 post	
10 burning	1 evening	7 kerosene	1 pretty	8 table
3 burner				1 tall
1 burns	5 fire	1 lantern	2 reading	
	1 flame	2 large	1 red	2 useful
13 candle	1 full	1 library	1 Rochester	
2 chandelier	2 furniture	650 light	2 room	2 vessel
1 cheer		2 lights		
87 chimney	4 gas	4 lighted	2 see	1 warmth
1 convenience	1 glaring	1 lighten	37 shade	23 wick
		2 lit		1 wisdom

## 53. DREAM

1 absence	1 eyes	2 lie	1 psychology	1 stale
1 angel		1 like	1 purple	1 startling
1 angels	2 falling	2 love		1 story
1 anger	9 fancy		1 queer	14 sweet
1 anything	1 fantasy	1 M.	1 quiet	
6 asleep	1 fear	2 man		1 talk
11 awake	1 feeling	1 mare	1 realization	1 terrible
1 awaking	1 feelings	1 meditate	1 recollection	8 things
1 awoken	1 forgotten	1 melancholy	1 relax	29 think
3 awakening	1 fortune	1 melody	1 remember	8 thinking
	1 funny	1 mesmeric	2 repose	28 thought
2 baby		8 mind	1 reposing	22 thoughts
16 bad	1 girl	1 money	3 rest	1 tiring
4 beautiful	7 good	1 music	6 restless	1 trouble
11 bed	1 goodness		1 restlessness	2 true
3 bliss	1 grand	2 nature	2 reverie	
1 book	1 grieving	1 never		1 uncomfortable
1 boy		3 nice	2 sad	1 unconscious
	2 hallucination	42 night	1 sadness	1 unconsciousness
1 comfort	3 happiness	24 nightmare	1 scene	1 uneasiness
2 consciousness	1 heaven	1 no	1 second	2 uneasy
1 conversation	3 home	1 none	1 semiconscious	1 unfortunate
	1 hope	2 nonsense	1 sensation	5 unpleasant
1 dangerous	3 horrible		1 sense	1 unpleasantness
1 darkness		1 object	1 shade	2 unreal
1 days	1 idea	1 omen	1 shadows	2 unrest
2 death	3 illusion	1 on	1 short	1 unstable
1 delusion	1 image	1 opium	2 sickness	
1 delusions	2 imaginary		1 sight	1 vacancy
1 disagreeable	12 imagination	1 paradise	1 sights	1 vagueness
1 disappointment	5 imagine	1 patients	— 339 sleep	48 vision
1 discontent	1 imaginings	1 peace	39 sleeping	6 visions
2 disturbance	2 impression	2 peaceful	2 sleeper	1 vivid
1 disturbing	2 indigestion	1 phantoms	2 sleeplessness	
1 doze	1 insanity	3 picture	2 sleepy	9 wake
1 dread	1 inspiration	1 pillow	1 slept	1 waking
2 dreary		1 play	20 slumber	1 wander
	1 kind	38 pleasant	1 something	4 wandering
1 easy		13 pleasure	1 somnambulist	1 weird
1 expectation	1 land	1 presentiment	2 snore	2 wonder
1 experiment	2 languid	1 prophesy	1 soliloquy	1 woods
				1 work

## 54. YELLOW

1 alive	1 coarse	9 flowers	2 fly	34 red
2 amber	301 color	3 fruit		1 ribbon
3 apple	1 coloring		1 maize	9 rose
1 autumn	1 common	1 G.	1 man	
	1 complexity	1 garments	1 marigolds	1 satin
5 banana	1 corn	1 gay	1 matter	1 school
3 beautiful	2 cream	1 glare	1 mellow	1 sear
2 beauty	1 crocus	13 gold	1 melon	4 shade
1 becoming		5 golden	1 molasses	1 silk
8 bird	3 daffodil	1 goldenglow		2 sky
24 black	3 daffodils	5 goldenrod	1 nature	2 soft
1 blossoms	6 daisy	1 goods	1 nice	1 spectrum
41 blue	7 dandelion	1 gorgeous		1 suit
23 bright	6 dark	1 grass	1 obnoxious	1 sulphur
2 brightness	1 delightful	41 green	1 ochre	21 sun
1 brilliant	1 desert		47 orange	8 sunflower
13 brown	1 disagreeable	2 hair	5 paint	7 sunlight
1 buff	1 dog	2 house	2 pale	1 sunshine
7 butter	1 door	1 hue	3 pansy	
11 buttercup	1 dream		4 paper	1 table
2 buttercups	9 dress	1 ink	2 peach	2 tan
8 butterfly	1 dresses		1 pears	1 tarnish
	1 dull	2 jasmine	1 pillow	1 tree
4 canary		3 jaundice	1 pink	
1 cat	1 ecru	6 jealousy	13 pink	1 ugly
2 China	1 egg	1 jonquil	1 plague	1 unharmonious
3 Chinaman		2 journal	1 poppy	
3 Chinese	1 fade		4 pretty	2 violet
2 Chinese	1 fancy	2 kid	1 primrose	1 wagon
1 chrome	1 fence		2 pumpkin	1 warm
1 chrysanthemum	3 fever	2 leaf	1 pumpkins	1 warmth
1 chrysanthemums	4 flag	1 leaves	1 pure	1 wax
	1 flame	7 lemon	5 purple	1 wheat
3 cloth	38 flower	14 light		70 white

## 55. BREAD

1 appetite	6 crust	2 grain	1 milk	1 sour
2 bake	1 cut	1 ham	1 mixing	8 staff
4 baking	3 daily	1 hand		3 stale
3 baker	4 diet	8 hard	1 necessary	1 strengthen
1 bakery	6 dinner	2 heavy	2 necessity	2 substance
14 biscuit	1 dish	1 holes	1 needful	1 substantial
2 biscuits	26 dough	2 home	4 nourishment	1 sugar
4 blue	1 doughnuts	1 hot	1 oatmeal	1 sustenance
1 board	1 earn	7 hunger		4 sweet
1 box	148 eat	4 hungry	1 pantry	3 table
2 breakfast	44 eating	8 knife	1 pastry	2 tea
3 brown	28 eatable		1 plate	1 toast
1 buns	6 eatables	23 life	1 pudding	1 tough
151 butter	1 edible	8 light	1 roll	1 useful
15 cake	1 feed	1 living	2 rolls	
1 cheese	88 flour	7 loaf	6 rye	9 water
1 children	191 food	1 lunch	1 salt	21 wheat
1 color	3 fresh	1 making	1 salty	15 white
1 common	2 fruit	2 man	1 satisfaction	1 wholesome
1 cookies		1 meal	1 sister	1 wine
1 corn	21 good	5 meat	8 soft	1 winner
1 crackers	2 graham			8 yeast
1 crumbs				

## 56. JUSTICE

2 action	8 do	1 have	1 merit	4 satisfaction
2 administered	2 doing	1 heaven	1 mind	1 satisfied
1 administration	1 done	1 help	1 moral	1 satisfying
2 all	1 Dr. E.	1 him	1 mother	5 scales
1 always	5 duty	5 honest		2 severe
1 ask	1 elusive	3 honesty	1 never	1 severity
1 authority	1 emblem	7 honor	1 nobility	1 sorrow
1 B.	1 employer	1 impartial	1 noble	8 square
1 bad	1 energy	1 iniquity	1 none	1 squareness
1 bed	8 equal	1 injury	1 nonsense	1 squire
8 blind	9 equality	26 injustice	1 obey	4 statue
1 blindfolded	1 equally	1 innocent	1 obtain	1 story
1 body	8 equity		1 oppression	8 supreme
	2 even	1 J.	4 order	2 sure
1 caught	1 exactness	2 jail		1 tranquillity
1 charity	1 execution	1 joy	1 pardon	6 true
1 chastise		91 judge	4 partiality	14 truth
1 chief	82 fair	1 judged	148 peace	2 truthfulness
1 clearness	21 fairness	6 judgment	1 perfect	
1 comfort	1 favor	8 jury	1 person	1 unbias
8 command	1 fear	5 just	1 picture	1 unfairness
1 commanding	1 fine	4 justified	1 Plato	1 unhappiness
1 conqueror	6 freedom		1 police	8 unjust
1 constable	1 friendship	6 kindness	1 policeman	1 uprightness
64 court			1 politics	
2 courts	1 gift	1 lacking	1 popular	1 vengeance
1 Creator	1 give	1 large	1 power	3 virtue
1 crime	8 given	74 law	1 privilege	
1 criminal	8 God	2 lawful	1 purity	2 well
2 cruelty	1 godliness	4 lawyer		1 wicked
	14 good	2 lenient	1 reason	1 willingness
1 dealing	2 goodness	11 liberty	2 reward	2 wisdom
1 deeds	1 govern	1 lots	187 right	1 wise
1 defying	8 government	1 love	3 righteous	2 work
1 delayed	1 guilty		18 righteousness	8 wrong
1 demand		2 magistrate	1 rightly	
1 deserved	1 happy	13 man	1 rightness	1 yes
2 dispute	1 harm	1 merciful	11 rights	1 yield
1 distribution	1 hasty	23 mercy	1 ruler	

## 57. BOY

2 action	1 dog	1 incorrigible	1 mother	3 son
2 active		1 industrious	1 muscles	1 spirit
2 activity	1 Edward	2 infant	1 myself	1 spoiled
1 agility	1 eighteen	1 inhabitant		2 sport
3 animal	1 embryonic	1 innocent	1 naughty	1 street
3 athletic	1 errand		2 Ned	2 strength
2 athletics		1 jacket	1 nephew	3 strong
	1 fair	2 James	1 newspaper	2 suit
6 baby	3 female	1 Jimmy	3 nice	1 sweetheart
9 bad	1 fight	1 Joe	7 noise	1 swimming
10 ball	1 flesh	1 joyful	3 noisy	
1 barefoot	1 foolish	1 jump	1 nuisance	3 tall
5 baseball	1 football	1 jumper		1 terror
1 beautiful	1 Frank	2 juvenile	1 obedient	1 think
6 being	4 friend		1 out	1 Thomas
1 Ben	2 frolic	4 kid		2 top
2 body	4 fun	7 lad	6 pants	1 toys
1 boisterous	1 funny	2 large	1 Paul	1 Tracy
1 book		1 laugh	11 person	1 trait
2 bright	1 games	1 legs	20 play	1 tramp
6 brother	--- 319 girl	2 life	1 plays	1 trouble
2 busy	7 good	3 little	1 playful	
	1 grown	3 lively	1 playfulness	1 useless
1 cap	1 growth		2 pupil	
1 careless	2 gun	1 maid	6 rough	1 walk
1 Charles		63 male	1 running	1 water
1 chicken	1 handsome	104 man	1 runs	1 whistle
86 child	1 Harry			1 whistles
1 children	1 hat	1 manhood	1 scallywag	1 wicked
1 class	1 head	1 mankind	2 scamp	2 wild
1 clothes	1 hearty	1 manliness	1 scholar	1 wildness
1 clothing	1 hero	1 manly	11 school	2 woman
2 companion	2 hood	1 marbles	1 sex	1 woods
1 cousin	2 hoop	3 masculine	1 sharp	1 work
1 curls	9 human	2 master	2 shoes	1 working
	1 humanity	1 meanness	14 small	
1 dead		1 Michael	2 smart	22 young
1 development	1 imbecile	11 mischief	1 smiles	1 youngster
2 dirty	1 imperfect	7 mischievous		33 youth
				1 youthful

## 58. LIGHT

1 agreeable	--- 231 dark	1 glare	7 morning	1 sign
8 air	93 darkness	1 gleam		8 sky
1 airy	2 dawn	3 good	1 nice	1 soft
1 arc	81 day		3 night	1 sound
1 assistance	2 daylight	2 hair	1 necessity	1 space
1 awake	6 daytime	4 happiness		1 splendor
	1 dimness	1 health	1 paper	1 steam
1 beacon	1 distance	1 healthy	1 pathway	86 sun
2 beautiful	1 dress	1 hearted	1 peaceful	1 sunlight
1 beautifying	1 dull	8 heat	1 pink	11 sunshine
1 beauty		1 heaven	1 pipe	1 swift
1 biscuit	2 early	5 heavy	1 placid	
8 black	1 easy	1 hills	3 pleasant	1 transparent
2 blue	1 education		1 pleasure	1 truth
1 bread	7 electric	1 illuminate	1 plenty	1 twilight
47 bright	8 electricity	7 illumination		1 ventilation
21 brightness	1 element		2 rays	1 Vera
3 brilliant	1 emptiness	1 joy	1 red	1 vibration
1 brown	1 enjoy	1 kerosene	1 reflection	2 vision
2 burn	1 evening	1 knowledge	1 right	1 vivid
1 burning	1 eyes		3 room	1 waist
	1 fair	1 laboratory	24 see	2 warmth
1 cheer	6 feather	82 lamp	3 seeing	1 waves
2 clear	1 feathers	1 lamps	1 seen	1 weak
2 clearness	6 fire	7 life	8 shade	2 weight
2 coat	1 flame	1 long	2 shadow	8 white
19 color	1 fleshy	1 look	1 shadows	2 whiteness
2 comfort	1 forward	1 luminous	2 shine	15 window
1 complexion	1 fuel		2 shines	1 world
1 convenient		1 match	2 shining	
1 cork	21 gas	10 moon	3 sight	6 yellow

## 59. HEALTH

1 action	3 desirable	111 happiness	1 optimism	5 sound
2 activity	9 disease	7 happy		1 spirit
9 air	4 doctor	1 haste	1 pain	1 spirits
1 athletics		1 healing	8 perfect	1 state
	1 eating	1 healthful	6 person	112 strength
5 bad	5 enjoyment	1 healthy	3 physical	1 strengths
1 baseball	2 everything	1 heaven	1 physician	31 strong
1 beautiful	1 excellent	2 holiness	1 physiology	1 sturdy
10 beauty	1 excursion	2 hygiene	1 play	1 success
1 better	3 exercise		2 pleasant	
4 blessing	1 existence	3 ill	14 pleasure	1 temper
1 blood		18 illness	1 plenty	2 thankful
1 board	1 face		2 poor	1 trouble
9 body	2 feel	6 joy	1 preserve	
1 boon	12 feeling		1 proper	1 unhealthiness
2 boy	1 fine	5 life	4 prosperity	3 unhealthy
1 broad	4 food	1 light		2 useful
2 buoyancy	1 form	1 live	1 quick	
	2 fortune	3 living		1 valuable
1 care	1 freedom	2 luck	1 red	11 vigor
1 careful	1 fun	1 luxury	3 riches	1 virility
1 cheer			9 robust	
1 circulation	3 gift	4 man	1 rose	1 walking
1 cleanliness	1 girl	1 nie	3 rosy	2 want
1 climate	2 gladness	3 medicine	1 round	1 warm
1 color	1 glow	1 merriment	2 rugged	1 water
26 comfort	1 golf	1 mother		1 weakness
6 condition	94 good	1 mountain	1 self	76 wealth
1 constitution	1 goodness	1 moving	9 sick	63 well
1 consumption	2 grand		2 sickly	1 wholesome
1 contentment	1 gymnasium	1 necessary	— 153 sickness	1 woman
1 convenience	1 gymnastics	1 needed	1 smiles	1 wonderful
2 country		1 needful		
		4 normal		1 youth

## 60. BIBLE

1 academy	1 encyclopedia	1 Jacob	1 paper	1 sour
1 all	1 excellent	4 Jesus	1 piety	1 stones
1 ancient		2 knowledge	2 pious	2 stories
	1 fable	1 Koran	3 pray	4 story
1 beauty	1 faith	4 large	2 praying	1 strength
1 belief	2 family	3 law	19 prayer	2 studies
1 beneficial		1 leaf	7 prayers	6 study
2 black	1 Genesis	1 leaf	13 prayer-book	6 Sunday
— 388 book	1 glass	1 leaves	2 preacher	
1 books	43 God	1 lectern	1 preaching	3 table
	28 good	1 legend	1 prophet	1 teach
1 catechism	12 goodness	2 lie	4 psalms	1 teacher
8 Christ	3 gospel	3 life		1 teachings
3 Christian	1 gospels	2 light	1 rarely	24 Testament
60 church	1 grand	2 literature	81 read	4 text
3 class	1 guide	5 Lord	19 reading	1 tradition
1 clean		2 love	1 reformation	2 true
1 clergyman	2 heaven		80 religion	17 truth
2 comfort	1 heavy	1 message	4 religious	1 truthfulness
2 command	1 help	1 mine	1 reverence	
1 commandment	26 history	3 minister	1 righteous	1 unnecessary
2 commandments	5 holiness	2 Moses	3 rot	2 useful
1 creed	57 holy	1 mother		
	2 home		3 sacred	1 verses
1 devotion	1 hope	1 necessary	2 Saviour	
1 directions	2 hymns	1 noble	2 school	1 weariness
1 drama			17 scripture	8 word
2 duty	1 instructive	2 obey	3 scriptures	1 words
		1 open	1 sermon	2 worship
			1 shelf	1 writ

## 61. MEMORY

2 absent	1 English	5 intelligence	1 patient	1 song
1 acquire	1 Europe	1 interpret	1 pen	2 sound
1 aid	2 events	1 invisible	2 perception	1 splendid
1 analysis	1 everything		2 person	1 stanza
1 ancient	2 excellent	1 joy	2 picture	1 storehouse
2 association	1 experiment		1 pictures	1 story
1 attention		1 keep	1 pleasantness	1 strengthen
1 attitude	1 faces	1 know	2 pleasure	1 strong
1 aunt	1 faculty	4 knowledge	3 poem	1 student
	1 failing		1 poems	4 study
1 back	1 fails	2 lack	7 poetry	1 studying
19 bad	4 fair	2 lacking	23 poor	1 sure
1 beautiful	1 fancy	1 language	1 power	7 sweet
1 bird	1 far	1 lasting	1 psychology	1 swift
3 blank	1 farther	1 learn	1 quick	1 swing
2 book	1 fascination	2 learning		
3 books	1 faulty	1 lecture	1 reading	1 teacher
46 brain	1 feeling	1 length	1 reason	1 tender
5 brains	1 fine	2 lessons	4 recall	5 test
1 brightness	1 fleeting	1 light	2 recalling	1 thankful
1 bucket	1 fond	3 long	3 recognition	1 things
	1 fool	1 loss	2 recollect	58 think
1 catechism	25 forget	1 love	16 recollection	38 thinking
1 cause	5 forgetful		3 recollections	1 thinks
1 charming	37 forgetfulness	1 magnificent	1 reflect	81 thought
4 childhood	5 forgetting	3 man	27 remember	28 thoughts
1 clear	3 forgotten	1 marvelous	4 remembering	8 thoughtful
2 concentration	1 forty	1 me	18 remembrance	8 thoughtfulness
1 connection	1 friends	1 memorandum	2 remind	1 thoughtlessness
1 conscience		1 memorizing	1 reminder	1 time
2 consciousness	2 gone	4 mental	2 reminiscence	1 train
	68 good	~138 mind	1 reminiscences	1 training
1 dancing	1 gravestone	1 mindful	1 reproductive	1 tree
1 death	1 great	2 mnemonics	1 result	
1 debts	2 green	1 mother	1 retain	1 unconsciousness
2 defect		1 mud	2 retaining	3 understand
1 defective	1 happiness	1 my	5 retention	6 understanding
1 desirable	1 happy	1 myself	3 retentive	1 unstable
1 deterioration	9 head	1 names	1 retrospect	2 useful
1 dictionary	1 hearing	3 necessary		
1 dim	2 history	1 necessity	1 sadness	2 verses
1 distant	2 home	1 needful	1 scenes	
1 dream	1 hopefulness	1 noble	1 scholar	1 weak
3 dreams		1 none	6 school	1 well
1 dull	2 idea		1 sensation	1 will
	1 image	1 oblivion	5 sense	1 wit
1 easy	2 imagination		2 senses	1 wonderful
1 educated	1 impossible	1 painful	7 short	2 work
1 effort	1 increase	8 past	1 simple	
1 elusive	7 intellect			2 youth

## 62. SHEEP

—225 animal	1 eat	1 group	5 meat	1 rocks
18 animals	4 farm	1 hair	1 meekness	1 run
1 astray	1 feed	1 harmless	3 mountain	1 running
1 awkward	12 field	4 herd	60 mutton	
	1 baa	1 herder		1 shear
3 beast	3 fleece	1 hill	1 nature	1 shearing
1 bed	1 flesh	2 hillside		1 shears
1 Bethlehem	24 flock	1 horn	1 oxen	15 shepherd
5 black	1 flocks	1 horse	2 park	1 simple
1 blind	4 fold	1 humanity	27 pasture	1 sleep
1 buffalo	1 follow		3 pastures	2 small
	2 food	5 innocence	1 peace	1 soft
1 calf	1 foolish	2 innocent	1 peaceful	1 spring
1 calm	1 fowl		1 pet	2 stock
47 cattle	1 fur	1 jump	1 picture	1 stupidity
1 cloth			2 pig	1 tick
3 country	1 gentle	151 lamb	1 plains	1 trust
22 cow	1 gentleness	36 lambs	1 play	
5 cows	1 goat	1 landscape	4 pretty	1 wander
	17 goat	2 large	2 quadruped	1 water
1 death	10 goats	1 lecture		18 white
2 deer	2 good	1 lowing	1 raising	2 wolf
2 dirty	4 grass		1 ram	143 wool
6 dog	1 graze	1 many		10 woolly
2 dogs	5 grazing	3 meadows		



## 63. BATH

1 baby	1 dry	2 invigorating	2 pleasure	1 springs
1 basin			2 plenty	10 swim
2 bathe	1 English	1 joy	3 plunge	5 swimming
6 bathing	1 every		1 porcelain	
1 beneficial		1 large		1 take
1 boat	1 filth	1 luxury	1 refreshed	1 taken
1 boy	1 filthiness		6 refreshing	2 toilet
	1 fine	1 man	1 refreshment	6 towel
120 clean	1 flowers	1 massage	2 river	2 towels
1 cleaning	1 fluid	2 morning	3 robe	71 tub
109 cleanliness	2 fresh		6 room	
2 cleanly		1 nakedness		1 vapor
9 cleanness	7 good	1 neatness	1 salt	1 vessel
6 cleanse		5 necessary	1 sanitary	
8 cleansing	9 health	2 nice	1 scrub	1 want
14 cold	1 healthful	1 none	1 sensation	3 warm
3 comfort	1 healthiness		3 shower	102 wash
3 cool	4 healthy	6 ocean	1 sleeping	16 washing
1 Creal Springs	10 hot	1 often	18 soap	—389 water
	4 house	1 once	1 soothing	5 wet
1 delight		3 pleasant	1 sponge	1 wood
4 dirt	1 invigorates		4 spray	2 yesterday
5 dirty				

## 64. COTTAGE

2 abode	2 door	1 ivy	1 patients	1 simplicity
1 agreeable	23 dwelling		1 peace	1 sleep
1 alone		5 lake	1 people	30 small
1 apartments	2 family	1 lane	1 picturesque	1 snug
	1 far	1 large	1 place	1 stands
2 barn	4 farm	4 lawn	1 pleasantness	3 structure
1 beach	1 fence	4 little	1 pleasure	9 summer
1 beautiful	6 field	17 live	1 pond	1 sweet
1 box	2 fine	5 living	4 porch	1 Switzerland
3 brick	4 flowers	1 log	1 prettiness	
1 brook	2 frame	1 lonesomeness	3 pretty	1 table
2 brown		4 love	1 pudding	4 tent
31 building	7 garden	2 low		2 thatched
13 bungalow	3 green	1 lumber	1 reside	1 tower
			4 residence	1 trees
3 cabin	1 habitable	1 Maine	1 resident	3 two
1 camp	3 habitation	15 mansion	1 resort	
2 camping	1 hamlet		3 rest	1 unity
1 Cape Cod	1 hammock	1 name	1 river	2 vacation
2 castle	1 handsome	3 neat	1 rod	1 veranda
1 chair	5 happiness	1 Newburgh	3 roof	1 villa
1 cheese	1 happy	4 nice	1 roomy	3 village
3 city	3 hill		2 roses	1 vine
15 comfort	85 home	2 one	1 rustic	3 vines
2 contentment	1 homelike	1 open		
1 cottage	1 homestead	1 orchard	1 school	3 white
36 country	1 hope	1 outing	10 sea	2 window
2 couple	1 hospital		5 seashore	1 woman
2 cozy	—461 house	1 painted	2 seaside	11 wood
1 cute	1 houses	2 palace	6 shelter	1 wooden
		2 parsonage	2 shingles	3 woods
1 distant	1 innocence	1 patient	2 shore	1 yard

## 65. SWIFT

2 active	7 deer	1 hear	1 near	4 slowly
2 aeroplane	1 degree	1 high	1 Niagara Falls	16 smart
1 ahead	1 doctor	28 horse		1 smartness
1 antelope	2 dog	12 hurry	1 power	3 smooth
13 arrow		1 hurrying	117 quick	29 speed
11 automobile	8 eagle		13 quickly	1 speedily
1 autos	2 easy	1 Indian	5 quickness	1 speeding
	3 engine		1 quiet	7 speedy
6 ball	— 222 fast	1 kite		1 spinchilled
1 beauty	1 fastness	1 launch	6 race	2 spry
1 better	1 fear	1 lazy	27 rapid	1 steam
1 bicycle	1 fish	2 light	2 rapidity	1 sting
16 bird	5 fleet	4 lightning	2 rapidly	1 stone
1 birds	6 flight	3 lively	1 real	8 stream
1 boat	3 fly		1 riding	2 strong
1 brisk	3 flying	1 man	18 river	2 sure
1 brook	1 foot	1 Marathon	1 rivers	5 swallow
3 bullet		1 Mercury	1 road	1 swallows
		1 messenger	1 rocket	
1 cat	1 girl	1 meteor	19 run	1 throw
1 channel	1 go	1 more	20 running	2 tide
1 child	1 going	1 morning	13 runner	1 time
1 choice	1 good	2 motion	1 rushing	18 train
1 clever	1 grand	1 motoring		1 trains
1 creek	1 Greek	2 movement	1 sail	
7 current		1 moving	1 sharp	1 walking
1 curve	1 hard	1 muscles	1 shot	11 water
1 cutting	1 hare		1 sleigh	8 wind
	1 haate		190 slow	1 work

## 66. BLUE

1 air	1 cold	1 good	1 necktie	1 skies
1 azure	— 256 color	2 grass		239 sky
	2 colors	10 gray	12 ocean	1 soft
	2 coloring	54 green		1 somber
1 ball			3 paint	1 space
1 beautiful	1 dainty	1 hat	1 pale	1 stripes
1 becoming	24 dark	5 heaven	1 paper	1 suit
1 bell	5 deep	2 heavens	1 pencil	
1 binding	1 depth	1 heavenly	9 pink	2 tie
5 bird	18 dress	1 homesick	2 pleasant	1 tint
88 black	1 dull	1 hopeful	1 pleasing	7 true
1 blood		1 horizon	1 policeman	2 truth
1 blossom	1 ether	1 house	4 pretty	1 turquoise
1 blotter	6 eyes	1 hue	1 purity	
1 bluebird			2 purple	1 unhappy
2 bluing		5 indigo		1 unrest
1 blusey	1 fair	6 ink	54 red	
1 book	4 feeling		1 restful	1 velvet
5 bright	1 fidelity	1 lake	3 ribbon	2 violet
8 brown	6 flag	8 light	1 river	3 violets
	3 flower	1 lily	1 room	2 washing
1 cadet	1 forget-me-not	1 lonesome		8 water
1 chemical			2 sad	47 white
1 clock	1 gentian	2 melancholy	1 sailor	2 wind
7 cloth	1 globe	1 Monday	7 sea	
8 clothes	2 gloominess		1 serge	2 Yale
1 clothing	2 gloomy	1 navy	2 shade	27 yellow
1 cloud	1 glum			

## 67. HUNGRY

1 aching	2 appetizing	4 beggar	1 candy	1 crackers
1 ambitious		1 biscuit	5 child	1 crave
1 angry	2 baby	5 boy	5 children	7 craving
2 animal	8 bad	26 bread	4 cold	1 cupboard
1 appeasing	1 bananas	8 breakfast	1 college	
57 appetite	1 bear	1 butcher	1 country	1 dark

1 desirable	4 fatigue	1 lion	1 perishing	2 steak
11 desire	1 fatigued	5 longing	2 person	13 stomach
1 devil	4 fed	4 lunch	2 picnic	1 suffering
1 devour	1 feel		2 pie	1 sufficiency
31 dinner	8 feeling	5 man	2 plenty	1 sufficient
1 disagreeable	1 fill	4 me	1 plow	2 supper
4 discomfort	4 filled	1 meal	6 poor	
1 displeasure	—136 food	3 meat	1 potatoes	1 table
1 dissatisfaction	1 form	1 milk	2 poverty	12 thirst
1 dissatisfied	1 fulfilment	2 miserable	1 present	61 thirsty
1 distress	9 full	1 misery		1 thought
14 dog	3 fruit		1 ravenous	1 tiger
1 dogs		1 nausea	1 repletion	12 tired
1 dry	1 gaunt	1 necessary		1 tiresome
	1 Gertrude	2 need	1 sad	3 tramp
126 eat	1 girl	1 needy	2 sandwiches	1 traveling
64 eating	2 gnawing	1 never	3 satiated	1 uncomfortable
2 eatables	1 good	1 nice	2 satiety	1 unhappiness
1 emotion	1 grub	1 no	14 satisfied	4 unhappy
4 emptiness		1 noon	2 satisfy	4 unpleasant
13 empty	1 hardship	1 nothing	1 school	3 unsatisfied
2 exhausted	1 Henrietta	1 nourish	1 sensation	
	1 hog	2 now	1 sharp	1 very
9 faint	1 horse		1 ship	1 viands
1 fainting	2 hunger	1 ocean	1 sick	1 victuals
5 famine		1 often	1 sleepy	
1 famish	3 I		1 slow	1 walk
11 famished	1 ice-cream	5 pain	2 sorrow	25 want
1 famishing		1 painful	10 starvation	5 wanting
1 fascinating	1 kitchen	1 pallid	8 starve	5 weak
3 fast		1 pang	15 starved	3 weakness
5 fasting	2 lack	1 peaches	29 starving	2 wish
				10 wolf

## 68. PRIEST

3 altar	1 conscientious	2 heaven	12 nun	8 robes
1 authority	1 console	1 high	1 office	1 ruler
	1 counsellor	3 holiness		
1 belief	1 crucifix	15 holy	11 parson	2 sacred
3 Bible		2 honor	11 pastor	1 sacrifice
6 bishop	1 dignified	2 hood	1 people	1 sanctity
13 black	2 discipline	1 house	3 person	1 school
1 blessing	1 discontent	1 humble	1 piety	1 sent
1 book	1 dishonor	2 hypocrite	4 pious	1 serious
1 boy	1 dislike		3 Pope	3 sermon
1 brother	1 divine	1 inspired	1 power	1 sermony
	1 divinity	1 instruction	1 praise	2 servant
1 cassock	5 doctor		3 pray	2 service
2 cathedral	1 doing	2 Jew	1 prays	1 services
36 Catholic	1 dominie	1 just	8 prayer	2 shaven
2 Catholics	1 dress	1 justice	1 prayers	1 shoot
4 Catholicism	1 Dr. K.		3 preach	1 sinner
1 ceremony	1 duty	1 kind	2 preaches	1 sister
1 chancel		1 knowledge	35 preacher	1 slim
2 chapel	1 exalted		2 prelate	1 solemnity
1 childhood		2 layman	2 priestess	1 sometimes
166 church	2 faithful	4 leader	1 profession	1 spookism
1 clean	2 fakir	1 lecture	3 prophet	1 stern
30 clergy	1 fakirs	1 Levi	1 pulpit	1 student
62 clergyman	3 fat	2 Levite	2 purity	2 Sunday
1 cleric	15 father	1 Lord		3 surprise
2 clerical	1 follower		2 rabbi	
1 cloister	1 forgive	5 male	57 religion	1 table
1 cloth	1 forgiveness	75 man	7 religious	2 teacher
1 clothes		5 mass	1 representative	
1 collar	2 garb	—178 minister	1 repulsive	1 ugly
1 comforter	1 gentleman	5 monastery	1 reserved	
1 command	2 God	9 monk	1 reverend	1 vest
1 communion	9 good	1 moral	2 righteous	1 vicar
5 confession	1 goodness		1 road	
2 confessor	6 gown	1 noble	12 robe	1 York

## 69. OCEAN

1 afraid	1 crossing	1 Hudson	12 rough	2 swim
1 angry	1 current			1 swimming
11 Atlantic		1 immense	2 sail	
	1 dark	2 immensity	2 sailing	1 tide-
1 barge	87 deep	2 infinity	10 salt	1 terrible
3 bathing	1 deepness	2 joy	2 sand	1 traveling
3 bay	10 depth		1 Sandy Hook	1 trip
5 beach	1 depths	12 lake	75 sea .	
1 beautiful	2 distance	8 land	3 seas	1 valley
5 big		9 large	2 seashore	7 vast
1 bigness	1 enormous	1 launch	1 seething	9 vastness
1 billows	1 Europe	1 liquid	1 shining	2 vessel
25 blue	2 expanse	1 Maine	24 ship	1 voyage
6 boat	1 expansive	11 ships	2 shore	1 waste
1 boats		1 Mauretania	1 sky	427 water
2 body	1 float	1 might	1 sound	1 waters
1 boisterous	2 foam	3 mighty	1 storm	12 wave
3 breadth		2 motion	1 storms	45 waves
1 breeze	2 grand	1 power	1 steamboat	1 wavy
3 broad	2 grandeur	1 pretty	14 steamer	2 wet
1 Byron	3 great	1 quantity	1 steamers	1 white
	1 greatness		1 steamship	15 wide
1 Cape Cod	2 green	36 river	4 stream	1 wonder
2 Coney Island	2 Grove	1 roars	1 swiftness	1 wonderful
1 country	1 gulfs			

## 70. HEAD

1 above	1 combs	3 good	14 man	4 scalp
9 ache	1 consciousness	1 govern	1 man's	3 sense
1 achs	1 cover	1 great	1 masterpiece	1 senses
1 anatomy	1 covered		1 medium	1 sensible
2 animal	2 cow	159 hair	7 member	4 shape
1 appearance	11 cranium	11 hand	3 memory	1 shaped
2 arm	1 crown	2 hands	1 mentality	1 shoulder
3 arms		1 handsome	14 mind	12 shoulders
1 asymmetrical	1 director	2 hard	1 mouth	5 skull
	1 donkey	17 hat		7 small
1 baby's		1 headless	1 nail	2 sore
2 back	1 ear	8 heart	1 nation	1 square
1 bald	1 ears	2 heels	17 neck	2 statue
1 ball	1 emptiness	3 high	2 nose	2 stomach
1 beautiful	1 empty	2 highest		1 strong
1 beginning	1 encephalon	2 hot	5 organ	2 superintendent
5 big	1 end	1 house		1 symmetry
1 black	1 extremity	4 human	1 pain	
146 body	2 eye		6 part	3 tail
1 bonehead	10 eyes	1 individual	1 people	1 teeth
1 boss		2 intellect	15 person	2 thick
58 brain	13 face	3 intelligence	2 physiology	9 think
32 brains	1 father	1 king	1 planning	6 thinking
1 branch	1 feature	1 knee	1 Pope	16 thought
1 bright	2 features	17 knowledge	3 power	4 thoughts
1 brown	26 feet		2 president	1 tired
	1 figure	19 large	1 pretty	31 top
7 cabbage	1 firm	1 leadership	2 principal	2 trunk
3 captain	2 first	1 leading	1 procession	
1 cattle	1 food	1 life		2 useful
2 cavity	64 foot	2 light	1 quarters	
2 chest	1 forehead	3 limb		1 whirl
2 chief	1 front	1 limbs	2 rest	1 wit
1 chop		1 little	21 round	1 woman
1 clear	1 girl	1 long	1 roundness	2 woman's
2 comb	1 glasses	1 louse	3 ruler	1 work

## 71. STOVE

3 article	1 dinner	213 heat	4 lid	1 round
1 bake	1 dirt	1 heating	8 lifter	1 rusty
1 baking	1 dishes	1 heats	1 light	
59 black	217 fire	5 heater	1 long	1 shovel
4 blacking	3 fireplace	2 heavy		1 sink
1 box	1 flame	1 home	2 metal	2 small
1 breakfast	3 food	86 hot		1 smoke
2 bright	1 Franklin	2 house	1 oil	3 steel
12 burn	1 fry	1 household	1 oven	1 structure
2 burning	1 fuel	1 icebox	1 painful	1 teakettle
1 chair	6 furnace	1 implement	18 pipe	
1 chimney	3 furniture	2 instrument	1 pipes	1 using
25 coal	1 furnitureness	51 iron	5 poker	2 utensil
2 comfort	7 gas	1 isinglass	10 polish	
24 cook	1 German	4 kettle	2 radiator	32 warm
34 cooking	2 good	11 kitchen	19 range	42 warmth
1 cooks	1 grate		1 receptacle	1 water
3 cover		3 lamp	1 red	2 winter
1 dark	2 hard	2 large	2 room	7 wood
	1 hardware	2 legs		1 zinc

## 72. LONG

1 age	1 elongated	7 large	1 reed	1 stupid
1 anxiety	1 endless	1 lasting	3 ribbon	1 summer
1 arm	1 enough	1 lecture	1 ride	
1 arms	2 eternity	1 legs	15 river	3 table
2 avenue	1 extended	50 length	32 road	26 tall
1 away	1 extension	1 rod	1 road	1 test
	1 extensive	1 level	1 room	2 thin
1 barn	1 extent	4 life	7 rope	2 thread
1 beach		5 line	1 row	1 throw
1 bench	8 far	1 linear	1 rug	15 time
1 big	1 feet	1 live	2 rule	1 tiresome
1 blackboard	1 fellow	1 Lusitania	4 ruler	1 tower
2 board	2 fence			3 track
6 boat	1 flagpole	5 man	1 shape	2 train
1 book	1 foot	7 measure	1 sharp	4 tree
1 boulevard	1 for	2 medium	1 shore	1 trip
1 bridge		1 meter	418 short	
2 broad	2 giant	13 mile	1 shovel	1 vast
1 Brooklyn	1 girl	1 miles	1 slender	1 very
1 Bridge	2 glass	1 Mississippi	1 slim	
1 broomstick	4 grass	1 much	1 slow	1 wait
1 building	1 great		1 small	2 waiting
		1 name	2 snake	7 walk
1 cable	2 hair	15 narrow	1 something	1 walking
1 chimney	2 hall	2 night	1 space	1 walls
1 coat	1 head	1 nose	1 spacious	6 way
1 courage	1 height		1 spire	1 ways
1 craving	5 high	1 oblong	1 square	1 weary
	1 hill		1 stay	1 whale
9 day	1 hose	2 path	1 steamer	1 while
1 days	1 hours	1 person	1 steeple	7 wide
1 deep	1 house	1 pin	8 stick	1 winter
1 depth		1 pipe	1 sticks	1 wire
1 desirable	2 Island	1 plant	2 story	1 wishing
1 dimensions		1 plenty	1 straight	1 without
81 distance	8 journey	20 pole	6 street	1 worm
3 distant			1 streets	
6 dress	1 labor	4 railroad	1 strength	4 yard
1 duration	3 lane	1 railway	2 stretch	2 year
	2 lanky	1 rails	6 string	

## 73. RELIGION

1 Abraham	2 different	1 honor	1 obey	2 science
1 aesthetics	1 difficult	1 house	3 opinion	1 scripture
1 aim	1 dislike	1 hypocrisy	1 order	3 sect
1 all	1 divine		1 orthodox	2 sectarian
1 anything	4 doctrine	2 idea		1 self
1 association	1 dogma	1 ideas	1 paganism	3 service
2 atheism	2 doubt	1 ignorance	3 peace	1 sheeney
4 atheist	1 Druids	1 indefinite	3 people	1 society
	1 duties	1 indiscreet	1 perfect	1 solace
2 Baptist	2 duty	1 institutions	1 persecution	1 somewhat
1 beauty		1 irreligion	2 person	1 soul
39 belief	1 emotion	1 irreligious	3 persuasion	1 spirituality
1 beliefs	4 Episcopal		13 piety	1 stability
2 believe	1 Episcopalian	3 Jesus	13 pious	1 standby
1 believing	1 eternity	3 Jew	2 poor	1 study
1 believer	2 ethics	1 Jews	1 Pope	1 superstition
1 belong	1 everyday	4 Jewish	1 powerful	
1 belonging		1 just	2 practice	1 tabernacle
52 Bible	1 fair		2 pray	1 table
1 body	47 faith	2 kind	2 praying	1 teaching
2 books	1 fake	1 knowledge	21 prayer	1 temperament
3 brain	2 fanatic		5 prayers	2 temple
1 Buddha	1 fanaticism	1 law	2 prayer-book	2 think
	1 feeling	1 learning	2 preacher	1 thinking
1 catechism	1 fine	4 life	2 preaching	12 thought
56 Catholic	2 foolish	1 living	3 Presbyterian	1 thoughtful
2 ceremony	1 free	1 Lord	28 priest	1 training
1 China		1 Lutheran	3 profession	1 true
8 Christ	1 gentile		1 professor	1 trust
14 Christian	1 German	1 man	30 Protestant	6 truth
7 Christianity	31 God	1 men	1 pulpit	
1 Christlike	1 godly	1 mankind	2 pure	1 uncertain
161 church	46 good	1 many	1 puzzle	1 uncertainty
4 churches	10 goodness	1 mental		1 unknowable
1 churchman	2 gospel	1 Methodism	1 question	
1 civilize	1 government	7 Methodist		1 virtuous
1 clergyman	3 guide	15 minister	1 race	1 vow
4 comfort		1 modesty	1 rector	
1 commandments	3 happiness	2 Mohammed	2 religious	1 want
1 conduct	1 harmony	2 morals	3 reverence	1 wickedness
1 Congregational	1 health	1 mystic	2 right	1 wide
2 conscience	3 heathen		2 righteousness	1 woman
1 conversion	8 heaven	2 nationality		1 wonder
2 Creator	1 Hebrew	1 need	1 sacrament	1 wonderful
33 creed	2 helpful	1 no	4 sacred	1 work
1 custom	1 hereafter	5 none	1 sacredness	14 worship
	1 heresy	2 nothing	1 saintly	1 worshipping
1 deep	2 history	1 nun	1 saints	
11 denomination	4 holiness	1 nuns	2 salvation	1 Yankee
4 devotion	10 holy		1 scholastic	

## 74. WHISKEY

1 abomination	24 brandy	1 deviltry	2 evil	2 hot
50 alcohol	1 breath	1 Dewar's		1 hotels
1 ale	1 burn	1 disagreeable	1 fast	1 Hunter
1 amber	4 burning	1 discontent	4 fire	
1 appetizer		1 disgust	1 flask	1 indulge
1 apple	1 Carrie Nation	1 distillery	4 fluid	1 indulgence
1 awful	3 cider	1 distress	1 food	1 inebriety
	1 closet	1 dope	1 full	1 insanity
35 bad	1 color	1 dreadful		5 intemperance
1 barley	1 corn	232 drink	8 gin	13 intoxicant
2 barrel	4 curse	1 drinks	3 glass	2 intoxicants
1 bed		17 drinking	15 good	3 intoxicated
46 beer	1 dangerous	1 drinkable	1 grain	14 intoxicating
9 beverage	1 dark	1 drug		14 intoxication
1 biting	1 death	31 drunk	1 hard	
5 bitter	1 degradation	18 drunkard	1 headache	1 jag
10 booze	1 despised	3 drunkards	1 Hennessy's	
1 Boston	1 destruction	28 drunkenness	1 hops	1 Kentucky
29 bottle	1 devil		1 horror	1 knock

1 law	1 odor	1 ruin	5 spirit	1 terrible
12 liquid	1 old	1 ruination	23 spirits	1 thirst
1 liquids		23 rum	38 stimulant	1 thirsty
70 liquor	1 pint	9 rye	4 stimulants	1 tipsy
	1 place		1 stimulating	1 today
2 malt	1 pleasant	15 saloon	1 stimulation	1 toper
2 man	4 poison	1 saloons	1 stomach	2 trouble
4 medicine	1 poor	1 Scotch	2 straight	
1 misery	1 poorhouse	1 seasickness	6 strong	1 unhealthy
1 money	1 powerful	2 sick	1 stupidity	1 unpleasantness
1 moonshine	2 prohibition	2 sickness	1 suffering	
	1 punch	2 smell		1 warm
3 narcotic		1 smuggle	1 taste	9 water
2 nice	1 rarely	1 sorrow	4 temperance	16 wine
1 none	2 red	4 sour	1 temptation	1 wrong

## 75. CHILD

5 adult	1 darling	1 hair	8 love	1 precocious
3 angel	2 daughter	2 happiness	2 loving	10 pretty
	1 dear	2 happy	4 lovely	1 pupil
7 babe	1 dearest	1 healthy	1 male	1 pure
—193 baby	1 delight	1 helpless	1 mammal	1 purity
1 bad	1 disobedient	1 helplessness	41 man	1 rattle
8 beautiful	1 dog	6 home	1 maternity	1 religious
5 beauty	4 doll	2 hood	1 me	5 school
8 being	4 dress	1 hospital	1 mite	1 screaming
2 birth	1 dresses	5 human	55 mother	1 senses
2 blessing		1 humanity	1 motherhood	1 simple
2 body	1 Eleanor	1 ill		1 simplicity
1 born	1 Elizabeth	1 infancy	1 naive	1 sister
64 boy	1 embryonic	1 immature	1 naughty	52 small
3 boys	1 expectation	122 infant	1 necessary	1 smile
1 burden		1 injury	1 nephew	2 son
	2 family	16 innocence	1 nice	1 spoiled
1 care	1 fat	11 innocent	1 night-dress	1 study
1 carriage	5 father	1 instinct	2 nuisance	6 sweet
1 charm	3 female	2 interesting		2 sweetness
1 childhood	1 frolicsome		1 obedient	1 table
1 childish	2 fun	1 joy	6 offspring	1 tender
1 Christ	1 fussy	2 juvenile		1 three
1 clothes	1 future		6 parent	1 toys
3 comfort		4 kid	1 parents	1 trouble
1 coming	45 girl	1 kindergarten	3 people	
1 companion	2 girls		18 person	3 weak
2 cradle	1 glass	2 labor	1 pet	18 woman
1 creep	7 good	2 lady	14 play	
1 crib	1 goose	2 large	3 playing	80 young
1 cries	1 Greta	1 like	3 playful	2 youngster
4 cry	1 growing	11 little	4 pleasure	29 youth
1 cross	1 growth	1 lonely	1 plump	1 youthful
1 cunning		1 lovable		
3 cute	1 habits			

## 76. BITTER

8 acid	5 beer	1 disappointment	1 grudge	1 limes
1 acrid	1 berry	2 dislike		1 liquor
1 agreeable	1 biting	10 distasteful	2 hatred	1 love
1 ale	1 boneset	1 dregs	2 herb	1 magen
4 almond	1 burdock	2 drink	5 herbs	1 man
3 almonds			1 hops	1 mandrake
4 aloe	1 candy	2 enemy	3 horrid	37 medicine
6 aloes	1 cascara		1 horseradish	1 Mirabar
1 altogether	1 chastisement	1 feelings		1 morphine
2 alum	1 chickory	1 flag	1 icy	
3 anger	1 chocolate	4 fruit	1 ill	3 nasty
3 apple	1 cider		1 irritating	1 nice
1 apples	6 cold	42 gall		1 none
1 apricot	1 cross	2 good	8 lemon	1 nux
1 astringent	1 cup	1 grape	1 lemonade	1 offensive
		3 grapefruit	1 lessons	1 olives
10 bad	1 deep	1 grass	1 life	3 orange
1 banana	10 disagreeable	2 grief		

1 peach	1 quince	1 spice	1 tears	1 unpleasantness
1 peel	23 quinine	3 strong	1 temper	1 unweetened
9 pepper		1 strychnia	3 thoroughwort	1 unwholesome
2 persimmon	1 rank	4 strychnine	1 thought	
3 pickle		1 suffering	1 tonic	1 vegetables
1 pickles	1 sadness	—305 sweet	2 tonics	17 vinegar
1 pleasant	2 salt	1 sweeter	1 trouble	
4 plums	2 salts		1 turnip	1 water
1 poison	3 sharp	8 tart		1 weather
3 pucker	8 sorrow	66 taste	3 ugly	1 wine
1 puckering	1 sound	3 tasteless	1 unhealthy	1 word
	—222 sour	1 tasting	1 unpalatable	2 words
1 quassia	2 sourness	1 tea	19 unpleasant	2 wormwood
				1 wrong

## 77. HAMMER

2 action	5 driving	1 knife	1 plumber	4 striking
1 annoyance	1 door	35 knock	51 pound	1 stroke
6 anvil		6 knocker	12 pounding	
1 article	1 easy	5 knocking	1 pounds	3 tack
1 awl	1 effort			11 tacks
11 axe		2 large	1 rap	1 Thor
	3 finger	1 lost	1 repairs	1 thread
3 bang	2 force		1 revolver	6 throw
1 beating		3 mallet	1 road	1 throwing
2 blacksmith	1 geology	1 mark	1 rod	1 thumb
6 blow		1 maul	1 round	1 thump
2 board	5 handle	1 metal		1 toe
1 bruiser	53 hard		9 saw	29 tongs
2 building	6 hatchet	—185 nail	1 scissors	69 tool
	2 head	98 nails	1 shoemaker	3 tools
13 carpenter	13 heavy	2 nailing	1 shop	1 turf
1 carpentering	21 hit	36 noise	10 sledge	
10 chisel	1 horseshoe	1 nut	2 small	1 use
1 claps	1 hurt	1 nuts	9 sound	5 useful
1 claw	1 hurts		1 spade	1 utensil
2 club		2 one	1 stay	
1 concussion	8 implement		20 steel	3 weapon
1 convenience	38 instrument	1 pain	1 stone	3 weight
	45 iron	2 picture	1 strength	6 wood
17 drive		1 pictures	28 strike	8 work
1 drives	2 J.			2 working

## 78. THIRSTY

1 all	1 desiring	1 glass	1 nauseated	1 suffering
2 always	1 dipper	1 good		
1 animal	1 disagreeable		1 oranges	1 terrible
3 appetite	2 discomfort	1 hard	2 pain	1 throat
	2 dog	1 haste	3 parched	1 tongue
1 bar	206 drink	2 heat	2 parching	1 uncomfortable
4 beer	23 drinking	1 horse	1 people	2 unpleasant
1 beverage	8 drought	2 hot		
1 bird	—218 dry	9 hunger	1 person	
1 boy	5 dryness	41 hungry		1 verv
1 brooks			12 quench	1 vichy
	1 emotion	1 labor	4 quenched	
1 cattle	1 empty	2 lack		2 walk
2 child	1 exhausted	1 lawn	1 refreshing	9 want
1 cold		7 lemonade		2 wanting
4 craving	1 famished	1 liquid	1 satiated	1 warm
1 cream	1 fatigue	4 longing	3 satisfied	—341 water
2 cup	5 feeling		1 sensation	1 wench
	1 fluid	1 man	2 soda	3 wet
2 desert	1 food	2 mouth	3 spring	2 work
4 desire	1 fountain		1 stream	



## 79. CITY

1 Albany	1 Creal	3 house	1 mill	1 sights
1 beautiful	1 Creal Springs	52 houses	1 mountain	1 sin
9 big	11 crowd		1 municipal	1 size
5 Boston	7 crowded	1 immense	1 municipality	1 slums
1 bridges	1 crowds	1 incorporated		1 small
3 Brooklyn	1 density	1 incorporation	1 nation	1 smoke
6 building	1 dirt	2 industry	99 New York	2 space
26 buildings	1 distance	1 inhabitant	12 noise	1 Springfield
1 bulk		12 inhabitants	6 noisy	26 state
1 Burlington	1 earth	1 inhabited		1 stores
1 business	1 excitement	1 joy	1 park	3 street
4 busy			1 pavement	11 streets
2 bustle	1 fine	2 land	48 people	1 tale
	1 fun	62 large	37 place	1 ten thousand
6 capital		1 largeness	1 pleasantness	2 theatre
3 cars	1 gaiety	2 life	2 populated	1 theatres
1 charming	1 good	7 live	19 population	2 towers
4 Chicago	1 government	1 loathing	1 populous	258 town
1 child	1 governor	2 location	6 Poughkeepsie	1 towns
7 citizen	2 great	1 lots		1 township
1 civilization	1 greatness		2 republic	1 traffic
1 Cleveland		1 machinery	2 residence	1 traveling
2 collection	3 habitation	1 majority	1 resting	1 tumult
5 community	1 heat	1 Manhattan	1 rich	2 turmoil
1 complexity	2 hill	2 manufacture	1 scene	
1 confusion	5 home	3 many	1 sea	44 village
1 congregation	1 homes	2 men	1 settlement	
2 corporation	1 hot	6 metropolis	1 shopping	1 wagons
74 country			1 shops	1 welcome
				1 world

## 80. SQUARE

1 accurate	1 crackers	3 green	1 measurements	2 sharp
1 acre	3 crooked	1 grounds	1 metal	1 side
1 across	1 crowd		2 mile	6 sides
1 active	9 cube	1 hand	1 monument	1 sidewalk
1 airy	1 cubic	2 handkerchief		1 size
11 angle	1 cubical	1 Harlem	1 New York	1 sizing
6 angles	1 curse	2 Herald		6 small
4 angular	1 curve	1 heavy	2 object	1 smooth
1 arithmetic		3 honest	52 oblong	2 solid
1 association	1 deal	1 honesty	1 obtuse	1 space
	1 dealing	5 house	1 open	2 stand
1 bed	1 decoration	3 houses	5 oval	1 steel
1 best	2 desk			7 straight
1 big	1 Dewey	2 inch	5 paper	9 street
71 block	4 dice	1 inches	1 parallel	1 streets
4 board	1 die	1 instrument	1 parallelogram	1 sugar
4 book	2 door	1 iron	14 park	1 surface
36 box	1 Düsseldorf		1 pavements	1 surveyor
2 brick		1 just	2 people	
5 broad	1 earth	2 justice	2 perfect	47 table
2 building	1 ease	1 junction	1 picture	1 thoroughfare
1 business	6 equal	1 kindergarten	2 pillow	3 Times
	19 even	1 knob	4 place	13 tool
9 carpenter	1 evenness	2 land	1 plane	1 tree
1 carpet	1 exact	5 large	1 plot	4 trees
1 cars		1 Lawrence	1 proportion	11 triangle
2 center	3 fair	2 length	2 public	1 true
1 Chatham	4 field	10 level		
1 checkers	4 figure	2 lines	1 quadrangle	1 uneven
22 circle	1 file	1 little	15 rectangle	1 uniform
1 circular	4 flat	1 rhomboid	3 rectangular	4 Union
4 city	1 floor	18 long	2 upright	
1 Common	2 foot	1 lot		
1 Commons	1 form		5 right	8 village
5 compass	10 four	12 Madison	1 Rittenhouse	
1 concert	1 frame	5 man	1 road	1 walk
1 Copley	1 furlong	1 mark	5 room	1 walks
7 corner		1 marks	9 rule	1 wall
18 corners	5 garden	1 masonry	3 ruler	4 Washington
2 cornered	10 geometry	2 mathematics		2 wide
1 correct	1 Getty	1 meal	1 saddle	1 window
1 correctness	1 goods	5 measure	1 seat	5 wood
1 cover	1 grass	2 measurement	6 shape	2 yard

## 81. BUTTER

2 bad	5 dish	2 goat	101 milk	1 smooth
2 bill	1 dripping	14 good	1 molasses	65 soft
2 biscuit		76 grease	1 mush	2 softness
206 bread	34 eat	6 greasy	1 nourishment	1 sour
1 breakfast	12 eatable	1 grocer	2 nut	1 spoon
1 butter	2 eatables	1 healthful		3 spread
1 butterine	6 eating		9 oil	1 square
	1 edible	1 indifference	3 oily	2 strong
41 cheese	2 egg	1 ingredients	5 oleomargarine	1 substance
4 churn	11 eggs			4 sugar
1 color	1 emollient	3 jam	1 peaches	1 supper
1 composition	1 excellent	2 jelly	3 plate	12 sweet
1 cooking		1 kerosene	1 pleasant	2 table
1 cottolene	1 farm	7 knife	1 plenty	1 tallow
1 country	1 farmer		1 pound	2 taste
1 cup	21 fat	15 lard	1 pure	2 tea
29 cow	1 fatty	1 luxury	2 rancid	1 thin
11 cows	1 fish			1 tub
34 cream	1 flour	1 meal	13 salt	1 use
	7 fly	2 meat	3 salty	3 vegetable
4 dairy	63 food	1 melt	1 salve	
1 dairying	3 fresh	2 melting	1 smear	80 yellow
2 diet	1 fudge			
2 dinner				

## 82. DOCTOR

1 administer	5 disease	5 ill	1 murder	1 quack
3 aid	1 diseases	21 illness		
1 ailment	1 Divinity	2 inquisitive	1 N.	6 relief
1 apparatus	1 doctress	2 intelligent	1 N.	1 relieved
2 attendant	1 dog	1 interne	2 necessity	1 remedy
	1 driving	1 invalid	1 need	
1 bad	1 Dr. P.		1 needed	1 S.
1 bag	2 druggist	1 K.	1 needful	3 satchel
2 beard		1 K.	1 nice	2 science
2 better	2 education	1 killer	41 nurse	1 scientist
3 bill		1 kind	1 nurses	52 sick
2 bills	2 fakir			104 sickness
1 bottle	3 false	1 labor	1 O.	3 smart
1 brains	2 father	1 laboratory	1 office	1 student
1 brother	3 friend	1 laborer	1 old	1 suffering
1 butcher		1 lamp	1 one	1 supervisor
	1 G.	36 lawyer	1 operation	5 surgeon
1 C.	1 G.	1 learned		1 surgical
1 C.	1 gentleman	1 life	1 P.	1 syringe
2 care	17 good		2 pain	
2 carriage	1 goodness	1 M.	1 papa	1 tend
1 case	1 great	1 McCl.	23 patient	1 treatment
1 chief	2 grip	1 McM.	1 patients	3 trouble
1 clergyman		1 magistrate	1 people	1 trust
1 clever	5 healer	1 male	3 person	
1 college	2 healing	63 man	1 pharmacist	2 useful
1 convenient	18 health	1 mean	1 physical	1 useless
9 cure	3 help	19 medical	213 physician	
	1 helper	149 medicine	1 pills	1 W.
1 D.	1 helpful	1 medicines	2 practitioner	1 W.
1 D.	1 helpfulness	1 merchant	6 priest	1 W.
1 D.	1 home	7 minister	9 profession	1 well
1 death	8 hospital	1 mixer	3 professional	1 wise
6 dentist		1 money		2 woman
				1 work

## 83. LOUD

3 angry	3 disagreeable	2 laugh	1 power	2 sounds
1 audible	1 discontent	2 laughing	32 quiet	3 speak
	1 dislike	2 laughter	1 quietness	2 speech
1 band	3 drum	1 lofty		2 spoken
1 bawl		3 long		7 still
5 bell	3 ear	57 low	1 racket	1 stone
2 bells	12 easy		1 real	8 strong
2 birds	4 explosion	1 man	1 report	1 subway
88 boisterous		1 masculine	2 rough	1 sweet
1 boy	3 fast	1 megaphone	2 rude	
2 boys	1 forte	1 mellow		12 talk
1 bright		1 mild	1 S.	1 talking
	1 game	1 mouth	9 scream	9 talker
2 call	1 gong	7 music	2 sharp	9 thunder
1 called	1 graphophone		1 shock	1 tie
1 calliope	2 gun	-205 noise	6 shout	1 tone
1 calm	1 guns	112 noisy	1 shouting	1 trolley
12 cannon			1 shriek	1 uncomfortable
1 check	2 hammer	1 objectionable	9 shrill	5 unpleasant
1 child	2 hard	1 ocean	1 shrinking	
1 children	3 harsh	1 organ	3 silent	
1 city	1 haughty	1 owl	1 sing	27 voice
1 clear	6 hear		1 singer	1 voices
2 course	1 heard	1 pain	1 singing	4 vulgar
2 color	4 heavy	4 painful	4 slow	
1 common	14 high	1 people	1 smart	2 whisper
1 confusion	1 hog	2 person	1 smooth	17 whistle
1 cornet	16 holler	1 phonograph	1 socks	1 wide
	4 horn	2 piano	165 soft	3 wind
1 deaf	1 impatient	1 piercing	1 softly	
1 deafening	1 pistol	2 song	25 sound	3 yell
1 din	2 knock	1 pistols		2 yelling

## 84. THIEF

1 absence	1 dishonor	1 laugh	1 pocketbook	-212 steal
1 abstractor	1 dislike	4 law	8 police	69 stealing
1 anger	1 distrustful	1 lawyer	12 policeman	8 steals
1 arrest	1 dirt	6 liar	1 poor	9 stole
	1 dog	1 lock	6 prison	9 stolen
14 bad	1 dumb	3 loss	1 prisons	2 stealer
1 badness		2 low	1 prisoner	1 stealth
1 bandit	1 enemy		2 punishment	2 stealthy
1 bank	1 evil	29 man	1 purse	
3 beggar		1 mask		5 take
1 being	2 fear	1 McClure's	1 ran	3 taking
1 betrayer	1 felon	4 mean	4 rascal	1 time
3 boy		1 meanness	1 reverses	2 tools
118 burglar	1 girl	1 men	1 revolver	1 tramp
2 burglary	1 glove	1 mercenary	8 rob	1 treasure
	2 gold	2 merchant	126 robber	1 troublesome
2 careful	1 good	2 minister	10 robbery	1 trust
2 catch		1 mischief	19 rogue	
4 caught	1 harsh	1 misdemeanor	1 roguish	3 ugly
1 caution	18 honest	1 mistake	1 run	1 undesirable
1 chief	4 honesty	16 money	2 running	1 unjust
1 clerk	4 house	5 murder		1 unreliable
1 clothing	1 household	3 murderer	1 scare	
4 court			1 schemer	1 vagrant
2 crime	1 ignorant	1 necessity	1 school	2 valuables
15 criminal	1 injustice	1 neighbor	4 scoundrel	2 vice
3 crook	1 interest	1 newspaper	1 shot	5 villain
1 cry	1 Irish	16 night	4 silver	1 virtue
2 culprit		1 none	1 silverware	
1 cute	11 jail	1 noted	1 sin	1 want
	7 jewelry		1 Sing Sing	3 watch
2 dangerous	3 jewels	1 object	1 sinner	1 waywardness
4 dark	1 judge		1 sly	4 wicked
1 deceit	1 jury	1 pencil	1 snake	3 wickedness
1 detective	2 justice	1 person	7 sneak	1 window
1 devil		2 pickpocket	3 sneaking	1 woman
11 dishonest	1 killed	1 play	1 sneaky	1 wretched
2 dishonesty	1 kleptomaniac	1 pocket	1 spoils	3 wrong

## 85. LION

4 Africa	5 cub	1 hearted	27 mouse	1 story
1 Androcles	2 cubs	1 holler	1 mule	30 strength
1 anger		1 horse		15 strong
2 angry	5 danger	1 howl	1 N.	1 Sultan
326 animal	6 dangerous	1 huge	1 noble	
3 animals	1 death	1 hungry	1 noise	4 tame
	13 den	3 hunter		1 tamer
17 bear	3 desert	4 hunting	1 panther	1 tail
67 beast	1 devours	1 hyena	2 park	1 teeth
1 beautiful	1 disturber		1 paw	1 terrible
1 beauty	1 dog	1 interested	1 picture	102 tiger
2 big			5 power	2 tigers
1 bird	1 eat	1 jealous	1 powerful	
1 bite	1 eats	5 jungle	1 prey	7 ugly
1 blood	3 elephant	1 jungles		
1 boisterous	1 enraged		1 rage	5 vicious
2 bold		16 king	1 raging	
1 Bostock's	3 fear		1 revenge	1 walks
4 brave	16 ferocious	1 L.	48 roar	2 wicked
1 bravery	1 ferocity	6 lamb	3 roars	12 wild
1 Bronx	36 fierce	3 large	6 roaring	1 wildness
	1 fierceness	10 lioness	8 Roosevelt	2 wilderness
14 cage	6 forest	1 lionized	1 rough	1 wilds
1 camel	1 fox	1 lookout		10 wolf
6 cat	1 fright	1 majestic	1 savage	2 woods
1 cave	1 frightened	3 majesty	1 sea	1 wool
1 Christian		13 mane	1 shaggy	1 wrath
2 circus	1 giraffe	5 menagerie	1 sharp	
2 claws	2 great	1 mice	1 sheep	1 yellow
1 cow	1 growl	1 mighty	1 stealth	5 zoo
1 crouching		1 monkey	1 stealthy	1 zoology
2 cruel	3 hair			

## 86. JOY

1 action	2 delighted	7 great	1 merriment	1 sensation
1 amuse	2 delightful	18 grief	1 merry	1 shouting
3 amusement	1 despair		7 mirth	2 show
1 anger		1 hands	1 money	1 sing
1 angry	1 ecstasy	215 happiness	1 motherhood	1 singing
1 anticipation	3 elated	71 happy	2 much	2 smile
1 arrival	1 emotion	1 harmony	5 music	1 smiling
4 automobile	1 engaged	1 health		3 song
	2 enjoyment	1 heard	1 news	135 sorrow
1 ball	3 excitement	3 heart	2 nice	1 sorry
1 bird	2 expression	2 heaven	1 noise	1 state
1 birth	1 extreme	1 holiday		1 suffering
1 birthday	1 exuberance	6 home	1 outing	1 summer
1 bitterness		4 hope		1 sunlight
1 bless	1 fair		1 pain	6 surprise
1 blessing	1 family	1 inexpressible	1 passing	4 sweet
10 bliss	1 feel		23 peace	1 sweetness
1 boy	5 feeling	1 joking	1 picnic	
1 bright	1 felt	1 jubilant	1 picnics	2 time
1 brightness	1 festivity		8 pleasant	1 triumph
1 buoyant	2 fine	1 lady	3 pleased	3 trouble
	1 food	7 laugh	121 pleasure	
1 cheer	1 forever	4 laughing	1 pride	1 unalloyed
2 cheerful	1 friends	15 laughter		1 unattainable
3 cheerfulness	1 fullness	1 leap	1 quality	2 unhappiness
2 child	6 fun	1 letters		1 unhappy
1 children		3 life	4 rapture	
2 Christmas	1 gaiety	2 light	2 rejoice	1 vacation
1 comes	1 gay	1 like	1 rejoicing	
11 comfort	1 game	2 line	2 relief	1 water
1 comfortable	1 gift	1 lonely	7 ride	1 wedding
1 company	2 girl	1 lots	2 riding	1 wetness
1 complete	1 girls	6 love	1 rider	1 wish
1 concert	27 glad	2 loving		1 wonderful
1 contentment	44 gladness	1 lovely	1 sad	2 work
	3 glee		13 sadness	1 wrath
3 dance	1 godliness	1 man	2 sailing	
5 dancing	7 good	2 marriage	1 Saturday	1 youth
6 delight	1 grand	2 meeting	1 seldom	

## 87. BED

1 animal	1 covering	2 house	17 pillow	3 sleepiness
1 asleep		2 house	7 pillows	7 sleepy
1 baby	1 desired	9 iron	1 pleasure	8 slumber
3 bedding	1 dormitory	1 joy	3 post	7 sofa
4 bedstead	1 down			31 soft
4 blanket	1 dreamland	2 large	1 quilts	5 spread
3 blankets		8 lay		1 spring
1 boat	1 ease	1 laziness	1 recline	1 springs
1 bowl	1 easiness	21 lie	1 recuperation	1 square
3 brass	2 easy	6 lounge	1 refreshing	1 stove
2 bug	1 fatigue	2 low	9 repose	1 structure
	3 feathers	8 lying	1 respite	
11 chair	1 flannels	1 make	182 rest	2 table
2 clean	1 floor	1 marriage	5 resting	1 tick
1 cleanliness	2 folding	21 mattress	1 restful	1 time
12 clothes	1 frame		1 robe	7 tired
2 clothing	26 furniture	1 narrow	16 room	1 twilight
35 comfort		1 negro		1 Vassar
1 comforts	1 go	11 night	1 seat	
12 comfortable	7 good		6 sheet	1 want
11 cot		1 object	7 sheets	1 warm
26 couch	2 hammock		1 shoes	1 weariness
1 counterpane	5 hard	1 pan	2 sick	2 white
4 cover	1 head	3 patient	5 sickness	1 whiteness
4 covers	2 home	1 peace	- 345 sleep	1 wide
			41 sleeping	4 wood

## 88. HEAVY

1 air	1 cloudy	1 heart	1 oppression	17 stone
1 animal	4 coal	2 hearted	1 oppressive	2 stones
1 anvil	1 coarse	1 heft		2 stout
1 article	1 coat	1 help	1 package	3 stove
1 automobile	1 comfort	2 horse	1 pail	1 strain
1 avoidupois	1 cumbersome	1 house	1 person	4 strength
			1 piano	3 strong
1 baby	1 dark	70 iron	2 ponderous	1 study
1 bad	1 difficult	2 irons	1 pound	1 suit
1 bat	1 dirt		1 pounds	
2 bed	1 disappointment	1 labor	2 pressure	5 table
3 big	1 discomfort	2 laden		3 thick
1 body	1 dope	18 large	1 quicksilver	1 things
3 books	1 drag	60 lead	2 quiet	1 thoughtful
1 boulders	1 drill	7 lift		21 tired
1 box	1 drowsiness	1 lifting	2 rock	2 tiresome
1 boxes	10 drowsy	- 273 light	1 rough	4 ton
1 boy	3 dull	1 lightness		1 tough
1 bread		57 load	2 safe	3 trunk
1 brick	1 effort	1 loadsome	1 sand	
1 building	3 elephant	1 loud	1 satchel	1 uncomfortable
1 bullet			1 scales	1 underwear
4 bundle	1 F.	1 machine	1 sharp	
12 burden	1 fall	4 man	1 ship	1 very
3 burdensome	1 feel	1 marble	1 short	
	1 firmness	1 mountain	1 sickness	1 weak
1 cake	1 full	1 much	3 sleep	3 weariness
1 cannon		1 mud	1 sleeping	3 weary
1 carpet	3 gold	1 muscle	1 slothful	1 weather
2 carry	1 gorgeous	1 myself	1 slumber	1 weigh
1 carrying	1 grief		5 soft	1 weighing
1 cement	2 grip	1 no	1 soggy	177 weight
1 chair			3 solid	1 weighted
1 change	3 hammer	1 obliging	1 sound	22 weighty
1 cloth	88 hard	1 opposing	1 steel	4 wood
1 clothes	2 head			2 work

## 89. TOBACCO

1 amber	1 elevate	1 Indian	69 pipe	7 strong
1 anger	1 enjoyed	3 injurious	3 pipes	1 substance
10 bad	1 enjoyment	1 intoxicate	38 plant	1 suffocation
1 bite	1 execrable		1 plants	2 sugar
4 bitter	1 exhilaration	7 juice	3 pleasant	2 sweet
1 Bob	1 evil		2 pleasure	
1 breath	1 field	17 leaf	6 poison	1 tasty
7 brown	1 fields	2 leaves	1 poor	1 tobacco
	4 filth	1 light	2 pouch	
28 chew	1 filthiness	1 liquor	1 plug	1 unclean
13 chewing	1 filthy	1 lungs		2 unnecessary
19 cigar	1 food	2 luxury	1 refrain	2 unpleasant
17 cigars			1 ruin	1 unwholesome
12 cigarette	1 garden	3 man		2 use
6 cigarettes	5 good	1 men	1 scent	1 used
2 comfort	3 green		1 sensation	1 useful
1 curse	1 grower	10 narcotic	1 sin	2 useless
	1 growing	2 nasty	5 smell	
1 death		1 nausea	—387 smoke	3 vegetable
1 decay	12 habit	18 nicotine	98 smoking	1 vice
1 deviltry	1 habits	1 none	1 smoker	2 Virginia
6 dirty	1 hard	1 not	15 snuff	
3 disagreeable	3 herb	1 nuisance	1 solace	44 weed
1 disgust	1 herbs	1 obnoxious	4 spit	1 weeds
1 disgusting	1 horrid	3 odor	1 stalk	1 whiff
3 drug	1 horrors	1 odorous	1 stars	1 whiskey
1 Durham		4 opium	2 stimulant	1 wickedness
			1 stimulants	1 yellow

## 90. BABY

1 animal	2 cross	1 happiness	1 milk	4 sleep
5 beautiful	3 cries	1 happy	41 mother	1 slight
2 beauty	37 cry	1 harmless		42 small
1 beginning	20 crying	1 helpless	1 name	1 smallest
3 being	3 cunning	4 helplessness	5 nice	1 smiling
1 bib	8 cute	4 home	6 noise	3 soft
1 big	1 cuteness	3 human	1 noisy	2 softness
1 birth			3 nuisance	2 squalls
1 blessing	4 darling	168 infant	7 nurse	1 squeal
1 blue	1 daughter	1 infinitesimal		1 squealing
2 body	1 delicate	10 innocence	2 offspring	1 stout
1 bonnet	1 dirty	4 innocent		1 sunshine
2 born	1 doll		1 pacifier	23 sweet
6 bottle	6 dress	7 joy	1 paper	7 sweetness
32 boy	1 embryonic	1 jump	2 person	1 syrup
1 bread	1 eyes		2 pink	1 talk
1 buggy		4 kid	1 play	1 talks
1 bundle	1 fair		1 pleasant	1 tiny
	2 family	1 lamb	3 pleasure	5 trouble
1 cap	5 fat	1 laugh	1 population	1 two
3 care	1 father	2 laughing	1 powder	
28 carriage	1 feet	1 Lawrence	7 pretty	1 wagon
2 cart	1 female	2 life		1 walking
280 child	1 flesh	1 light	4 rattle	1 weak
3 children	1 food	12 little	1 rocker	1 weakness
1 childhood	1 friend	1 Lorenzo	1 round	1 wee
1 chubby	1 future	9 love	2 Ruth	1 white
4 clothes		1 loveliness		2 wife
3 comfort	26 girl	1 lovely	1 sex	5 woman
22 cradle	1 good		1 sick	
1 creation	1 goodness	2 mama	1 sickness	2 yell
1 crib	1 growth	4 man	1 simple	12 young
1 crooning		1 mankind	1 simplicity	1 youngster
		1 Mary	2 sister	4 youth

## 91. MOON

1 astronomer	7 body	1 circular	1 delicate	1 fair
1 astronomy	52 bright	8 clear	1 delightful	2 fire
1 atmosphere	7 brightness	2 clouds	1 dim	1 firmament
	1 brilliant	4 cold	4 distance	10 full
2 ball		1 coldness	1 dreaming	
2 beam	1 calm	8 crescent	5 earth	1 girl
1 beams	1 change	1 cute	3 eclipse	1 globe
7 beautiful	4 cheese		1 equator	1 glowing
6 beauty	1 circle	2 dark	6 evening	1 grand

1 great	3 lunar	23 planet	26 shine	1 steamer
1 guard		1 planets	4 shines	1 stone
3 half	8 man	1 pleasant	12 shining	2 struck
2 heaven	3 moonlight		12 shiny	120 sun
3 heavens	1 mountain	1 quiet	4 silver	1 sweet
4 high	1 mystery		6 silvery	
		1 reflection	1 size	1 turkey
1 illumination	1 necessary	1 rise	73 sky	
1 lady	3 new	1 rises	1 solar	1 valuable
1 lake	68 night	1 rising	1 sound	
9 large	1 object	33 round	1 splendid	1 wan
231 light	1 ocean	4 satellite	2 spoon	2 water
3 love	1 one	2 sea	1 spooning	3 white
1 loveliness	1 orbit	1 sec	32 star	1 wish
2 lovely		1 seeing	93 stars	
	2 pale	1 sentimental	1 starlight	11 yellow

## 92. SCISSORS

1 apart	3 dressmaking	1 instruments	1 nippers	1 skirt
4 article	5 dull	68 knife	6 paper	1 spool
		6 knives	1 point	23 steel
2 barber	1 edge		1 pointed	1 string
1 blade	1 fate	1 lever	1 razor	2 tailor
1 blades	1 firecrackers	1 linen	1 ruching	8 thimble
1 blunt	1 flowers	1 lost		4 thread
			1 Sarah	1 tongs
35 cloth	2 garments	2 machine	1 screw	10 tool
1 clothing	1 glistening	1 material	1 severing	1 tools
1 cord	5 goods	1 metal	2 sew	1 trousers
1 crooked	1 grating	1 millinery	10 sewing	
2 crossed	7 grind	1 mother	190 sharp	1 useful
347 cut			5 sharpness	1 usefulness
114 cutting	1 handle	1 nails	1 sharpen	1 utensil
1 cutlery	1 handy	1 necessity	40 shears	1 weapon
		4 needle	2 shut	1 woman
1 dress	6 implement	4 needles	1 silver	2 work
2 dressmaker	88 instrument	1 nickle		

## 93. QUIET

1 action	3 demure	2 life	3 pleasure	3 solemn
2 alone	1 disposition	1 like		2 solitude
1 always	1 docile	1 loneliness	1 quick	3 soothing
1 asleep	1 dreary	3 lonely	2 quite	4 sound
	1 dull	2 lonesome		2 soundless
2 baby	1 dumb	1 looks	1 rabbits	1 speechless
1 beautiful		1 lovely	1 refined	1 state
1 beauty	8 case	48 loud	1 relief	2 steady
1 bed	1 casiness	1 low	6 repose	136 still
2 behave	49 easy		1 reserved	16 stillness
3 boisterous	5 evening	1 man	68 rest	2 study
1 bore		1 melancholy	4 resting	1 stupid
1 boy	1 family	1 mind	10 restful	1 subdued
1 breeze	1 feeling	1 Miss K.	2 restless	1 summer
1 brook		1 moon	6 room	1 Sunday
1 butterfly	1 genteel	1 mountains	1 rough	2 sweet
	3 gentle	1 music		
20 calm	1 gentleman	1 myself	1 sad	2 talk
1 cattle	2 girl		1 sea	1 time
6 child	7 good	1 nature	1 serene	1 times
1 children	1 green	2 nice	1 sheep	1 timid
4 church		88 night	1 sickness	1 tomb
1 color	1 happy	50 noise	13 silence	1 tranquil
2 comfort	2 harmless	16 noiseless	15 silent	1 tree
1 comfortable	1 harsh	1 noisiness	24 sleep	1 twilight
1 composed	1 heaven	113 noisy	3 sleeping	
2 contented	6 home	1 nook	1 sleepy	1 village
21 country	1 hour		8 slow	1 violent
1 Oreal	3 house	1 park	1 slowness	1 voice
1 cricket	2 hospital	26 peace	1 slumber	
3 cross	1 humble	2 peaceable	1 slumbers	1 walk
		52 peaceful	1 smart	1 water
3 dark	1 joy	4 peacefulness	1 smooth	1 well
1 darkness		2 people	1 sober	1 Wilton
3 day	1 landscape	1 person	10 soft	1 wish
2 death	1 laughing	4 place	1 softly	1 wood
1 degree	1 library	4 pleasant	1 softness	10 woods

## 94. GREEN

8 apple	1 definite	1 grew	1 ocean	1 sky
2 beautiful	6 dress	1 grief	1 olive	1 slow
1 bird	2 earth	1 ground	2 orange	1 small
13 black	3 envy	1 hat	3 paint	1 soft
1 bloomy	1 Erin	1 hill	2 paper	2 sour
2 blotter	4 eyes	2 horn	1 peaceful	1 spinach
46 blue	1 farmer	1 horrid	2 peas	9 spring
1 book	1 favorite	1 hue	11 pink	1 stain
5 bright	12 field		6 plant	1 summer
8 brown	10 fields	6 Ireland	1 plants	1 tea
1 butterfly	3 flag	14 Irish	2 pleasant	10 tree
1 cabbage	4 flower	1 jealousy	1 pleasing	29 trees
1 calm	2 flowers		4 pretty	1 unripe
1 carpet	2 foliage	1 landscape	6 purple	1 vegetable
1 cheese	1 food	1 laurel	2 quiet	1 vegetables
3 cloth	1 foolishness	5 lawn	42 red	3 verdant
200 color	1 forest	8 leaf	6 restful	1 verdure
1 colors	3 fresh	13 leaves	2 ribbon	
1 comfort	1 fruit	4 light	2 ripe	1 warning
1 corn	1 gay		2 sea	1 wearing
1 country	1 glasses	1 meadow	4 shade	31 white
1 covetous	1 gold	1 meadows	2 shamrock	1 wood
2 cucumber	1 grand	2 mountain	1 shutters	2 woods
1 curtain	1 grapes	1 name	1 sight	54 yellow
8 dark	284 grass	4 nature	1 silk	1 young
1 Dartmouth	5 gray			

## 95. SALT

1 acrid	1 dish	1 Lake	2 potato	18 sour
3 air	1 drink	1 life	4 potatoes	5 spice
1 apple	2 dry	1 lot	1 powder	1 spill
2 apples			1 preparation	1 stickiness
1 article	5 earth	4 mackerel	2 preservation	88 sugar
	17 eat	1 marsh	1 preservatives	1 sustenance
1 barrel	7 eatable	18 meat	1 preserving	27 sweet
1 barren	8 eating	1 meats		1 Syracuse
1 bath	2 eggs	1 medicinal	1 quotation	
1 beef	1 epileptics	1 melt	1 refreshing	14 table
40 bitter	1 finish	2 mine	4 relish	2 tart
1 bowl	4 fish	3 mines	7 rock	87 taste
1 box	21 flavor	37 mineral	1 rocks	1 tasting
2 bread	3 flavoring	1 mustard	1 saline	2 tasteful
2 brine	46 food	1 NaCl	1 saltpetre	6 tasty
1 bromide	1 France	5 necessary	3 salty	1 tasteless
7 butter	11 fresh	3 necessity	1 sandwiches	1 temper
		1 needed	1 Saratoga	4 thirst
2 celery	1 glass	1 needful	1 saving	2 thirsty
9 cellar	9 good	1 nice	10 savor	1 trees
2 chemical			1 savory	7 use
1 codfish	1 halite	36 ocean	18 sea	2 useful
2 condiment	1 ham		12 season	1 uses
4 cook	4 hard	1 pantry	31 seasoning	1 using
2 cooking	1 horrid	1 paper	2 shake	5 vegetable
1 cows		1 pasture	4 shaker	1 vegetables
1 cream	1 ice-cream	142 pepper	8 sharp	1 victuals
	1 ingredient	1 petre	1 sheep	1 vinegar
1 deposit		1 physie	1 smart	
1 digestible	1 Kenilworth	1 pickles	1 snapping	34 water
3 dinner	1 kitchen	5 pork	1 sodium	2 wet
1 dirt		1 potassium	2 soup	36 white
1 disagreeable				

## 96. STREET

1 air	3 boulevard	1 byway	1 confusion	1 Devon
18 alley	1 Bowery		1 congestion	1 direct
6 asphalt	2 boy	10 car	2 corner	1 directions
1 automobiles	1 brick	8 cars	1 country	4 dirt
63 avenue	2 broad	1 carriage	2 crooked	5 dirty
1 avenues	6 Broadway	82 city	1 cross	1 distance
	1 Brooklyn	1 Clarkson	3 crowd	1 drive
1 better	1 building	7 clean	1 crowded	1 driving
1 bitter	1 business	1 cleaner		2 driveway
12 block	4 busy	1 colors	1 dark	1 dry



4 dust  
5 dusty  
1 dwellings  
1 earth  
1 Eighty-sixth  
1 Eleventh  
1 Elm  
1 even  
1 fertile  
1 Fifteenth  
1 fine  
2 flags  
1 Forty-third  
1 garden  
1 going  
1 gravel  
2 gutter  
1 hard  
1 heat  
1 Hester  
7 highway  
1 home

2 horses  
1 hot  
11 house  
21 houses  
1 hustle  
3 land  
21 lane  
1 large  
1 length  
1 level  
1 light  
2 live  
2 location  
1 lonely  
29 long  
5 Main  
1 Market  
1 Maxfield  
1 motion  
1 mud  
1 musician  
2 name  
21 narrow  
8 New York

1 nice  
8 noise  
5 noisy  
12 number  
1 numbers  
1 One-fifteenth  
1 One-sixteenth  
1 opening  
11 passage  
1 passageway  
2 pasway  
12 path  
2 pathway  
1 pave  
13 paved  
25 pavement  
1 paving  
1 pebble  
1 Pecan  
22 people  
16 place  
2 pleasant  
1 pleasure  
2 pretty

1 racket  
1 residence  
91 road  
4 roads  
2 roadway  
1 see  
1 shopping  
3 short  
26 sidewalk  
2 sidewalks  
1 Sixty-seventh  
2 Sixty-third  
2 smooth  
1 space  
4 square  
8 stone  
8 stones  
17 straight  
1 sun  
1 sweep  
1 tenements  
1 terrace  
23 thoroughfare

26 town  
1 tracks  
7 traffic  
3 travel  
1 tree  
1 trees  
2 trolley  
1 turnmill  
1 vehicles  
9 village  
3 wagon  
2 wagons  
78 walk  
23 walking  
2 walks  
1 Wall  
1 Washington  
14 way  
1 wet  
1 white  
35 wide  
1 width  
1 Woodhull

## 97. KING

1 Albert  
1 all  
3 Alphonso  
1 antiquity  
1 Arthur  
4 authority  
1 bad  
1 boss  
1 card  
1 cards  
2 chess  
1 chief  
3 command  
1 commanding  
9 commander  
2 conqueror  
13 country  
1 court  
1 courtier  
63 crown  
2 crowned  
1 daughter  
1 diamonds  
1 dignity  
1 dislike

1 dog  
1 duke  
30 Edward  
11 emperor  
3 empire  
20 England  
1 ermine  
1 family  
1 farce  
1 first  
1 fool  
1 foreign  
1 friend  
1 garment  
2 George  
1 glory  
1 good  
1 govern  
4 government  
6 governor  
2 great  
1 greatness  
1 Hamlet  
1 happy

8 head  
1 helmet  
2 Henry  
2 high  
1 Holland  
1 honorable  
1 horrible  
1 imperial  
1 inheritance  
1 Italy  
1 John  
1 judgment  
2 Kaiser  
1 king  
5 kingdom  
1 large  
1 law  
2 leader  
1 lion  
1 lord  
1 Louis XVI.  
1 loyal  
1 majestic

8 majesty  
2 male  
43 man  
3 master  
1 mean  
1 Midas  
49 monarch  
4 monarchy  
1 nation  
1 nobility  
3 noble  
2 nobleman  
1 none  
1 officer  
1 old  
2 palace  
6 person  
1 picture  
2 pompous  
18 power  
4 powerful  
4 president  
1 princess  
1 Prussia  
354 queen  
1 regal  
1 regent  
8 reign  
1 rich  
1 Richard  
2 royal  
5 royalty  
10 rule  
4 rules  
162 ruler  
1 Saxony  
2 sceptre  
1 slave  
1 somebody  
8 sovereign  
1 Spain  
1 stories  
2 subject  
1 supreme  
21 throne  
1 title  
1 town  
1 tyrant

## 98. CHEESE

2 American  
1 bacteria  
2 bad  
2 beer  
1 biscuit  
6 bitter  
2 box  
56 bread  
1 brick  
186 butter  
2 buttermilk  
8 cake  
2 Camembert  
1 casein  
1 chalk  
1 cheesecloth  
1 churn  
4 cloth  
1 cold  
4 color

1 corn  
9 cow  
3 cows  
1 cracker  
30 crackers  
30 cream  
1 creamery  
1 crust  
9 curd  
3 curds  
2 cut  
1 cutter  
4 dairy  
2 delicatessen  
1 derby  
2 diet  
1 digestible  
1 digestion  
2 dinner  
1 dish  
4 dislike

1 Dutch  
1 eagle  
67 eat  
29 eating  
1 eaten  
19 eatable  
3 eatables  
1 edible  
2 eggs  
1 factory  
2 fat  
1 feast  
1 fine  
1 fondness  
91 food  
2 fresh  
1 fromage de  
Brie  
15 good

5 green  
1 grocer  
1 grocery  
1 ham  
2 hard  
1 head  
1 heap  
2 hole  
2 holes  
2 holey  
1 hoops  
1 hunger  
1 hungry  
1 indigestion  
1 jam  
1 kind  
4 knife  
13 Limburger  
1 lump  
2 lunch  
1 macaroni  
1 maggot  
2 maggots  
1 meat  
25 mice  
1 microbes  
1 mild  
106 milk  
1 milky  
1 mixture  
2 moon  
1 mould  
1 mouldy  
13 mouse  
2 mustard  
1 nice  
1 nourishment  
1 nutrition

9 odor	4 rarebit	1 salt	2 solid	1 tasty
1 odorous	8 rat	8 sandwich	5 sour	1 thin
	7 rats	2 sandwiches	1 strengthening	
1 pickles	1 red	1 sauce	12 strong	5 vegetable
6 pie	1 resentment	1 scent	1 sugar	1 vegetables
1 plain	1 rich	2 Switzer	5 supper	
1 plate	4 Roquefort	3 sharp	2 sweet	1 wafers
1 poor	1 rough	1 skippers	16 Swiss	3 white
1 poultry	2 round	33 smell	1 Switzerland	1 worms
1 price		1 smells		
2 product	1 sage	7 soft	8 taste	32 yellow

## 99. BLOSSOM

50 apple	1 clover	39 fruit	2 odor	1 seeds
4 apples	5 color		2 orange	1 shrubberies
1 art	1 colors	2 garden	2 orchard	1 small
	1 country	1 gin		2 smell
10 beautiful		1 girl	1 pansies	1 soft
9 beauty	1 dainty	1 green	1 pansy	23 spring
1 beginning	2 daisy	2 grow	1 peacefulness	1 sprout
1 berries	1 delicate	2 growth	4 peach	1 stem
28 bloom			1 petal	4 summer
7 blooming	1 eat	1 handsome	1 petals	1 sun
1 blow	2 fair	1 happiness	1 picking	15 sweet
1 book	1 falling	1 hepatica	7 pink	1 T.
4 bright	1 falls		13 plant	40 tree
23 bud	3 field	3 leaf	1 pleasure	17 trees
3 buds	1 fields	1 leaves	1 plum	
1 bursting	467 flower	2 lilacs	1 pour	1 vine
1 bush	73 flowers	1 lily	15 pretty	3 violet
2 bushes	1 foliage			
1 buttercups	2 forth	1 magnificent	3 red	1 weeds
	6 fragrance	2 May	17 rose	8 white
5 cherries	4 fragrant	1 mimosa	4 roses	
4 cherry	1 frail	1 nice	1 scent	2 yellow
1 clematis				1 youth

## 100. AFRAID

1 accidents	5 cowardice	2 ghosts	4 nervousness	1 soldier
1 action	3 cowardly	1 girl	3 never	1 somebody
2 alarm	1 crowd	4 go	12 night	1 sore
2 always	1 crying	1 goblins	3 no	2 sorrow
3 anger		1 God	1 nobody	1 sorry
2 angry	15 danger	1 guilty	2 noise	1 spirit
2 animal	2 dangerous		1 noisy	1 spiritual
2 animals	1 dare	1 happy	1 not	1 startled
1 anxiety	114 dark	2 harm	5 nothing	1 startling
2 automobile	16 darkness	1 heart		1 stav
1 awful	2 death	1 heroism	1 obsession	1 stillness
	1 deep	1 hide	1 opposition	1 strong
1 backwardness	1 depressed	1 home		1 suddenness
2 bad	1 desire	1 hope	1 palpitation	1 suffering
2 bashful	1 dislike	1 horse	1 patient	1 sure
1 battle	1 do	1 hurt	1 patients	
1 bears	1 dog		1 plucky	1 tempted
1 blow	1 dogs	1 insect	1 police	1 terrified
2 bold	1 don't	1 joy		9 terror
1 boy	1 doubt	1 joyful	1 quiet	3 thief
18 brave	7 dread		1 rat	1 thought
1 bravery	1 dreading	1 licked	1 rats	1 threaten
1 brother	1 dreadful	1 lightning	1 retreat	1 thunder
3 burglar	1 dream	3 lion	1 riot	55 timid
2 burglars		1 loneliness	2 robbers	2 timidity
	2 emotion	3 lonely	1 rocks	1 timorous
1 careful	2 faith	5 lonesome	4 run	1 to-night
2 cat	197 fear	1 loss	1 running	2 tremble
1 cheerfulness	8 fearful			1 trouble
8 child	8 fearless	3 man	1 scare	1 trust
1 children	2 feeling	1 manner	106 scared	
1 cold	1 fierce	1 memory	1 scary	1 unable
1 comfort	1 forward	1 mild	1 scream	1 uncertain
1 comforted	9 fright	1 Miss K.	1 sensitive	5 uneasy
1 company	2 frighten	1 mice	1 shiver	1 unhappiness
1 confidence	48 frightened	2 mouse	2 shrinking	1 unknown
1 conscience	1 frightful		1 shudder	1 unprotected
11 courage	1 frog	1 need	2 shy	1 woman
5 courageous		2 nerve	1 sickness	1 women
1 cow	1 gallant	1 nerves	1 sleep	1 worried
1 cows	4 ghost	55 nervous		3 worry
53 coward				

## APPENDIX TO THE FREQUENCY TABLES

### General Rules.

1. Any word combination which is to be found in the frequency tables, but only in the reverse order from that in which it occurs in a test record under consideration, is to be classed as a normal reaction.

2. Any reaction word which is a synonym or an antonym of the corresponding stimulus word is to be classed as normal.

#### 1. TABLE

Any food or meal.

Any room or apartment.

Any article of table linen, china, silver, or furnishings.

Word designating any special variety of tables.

Any word pertaining to appetite.

#### 2. DARK

Any source of illumination.

Any enclosure from which light is wholly or in a large measure excluded.

Word referring to physiological pigmentation of tissues exposed to view.

Any division of the diurnal cycle.

Any color or coloring material.

Anything which obscures light.

#### 3. MUSIC

Any musical instrument.

Name of any composer or musician.

Special or general name of any musical composition.

Term designating rhythm, tempo, loudness, or pitch.

Name of any dance.

Term expressing subjective effect of music.

#### 4. SICKNESS

Term designating any disease, symptom, injury, or physiological function.

Any cause of disease.

Any means or measure of treatment of disease.

Any anatomical organ or region.

Word denoting mode of termination, results, consequences, or indirect effects of disease.

Any term of prognostic import.

Common or proper name of any person.

#### 5. MAN

Word denoting or implying age of a person.

Any of the well-known male sexual characteristics.

Occupation or profession more or less peculiarly masculine.

Word pertaining to familial relationships or domestic organization.

Word pertaining to sexual relationships; any word denoting the opposite sex.

The proper name of any male person.

Any article of male apparel.

#### 6. DEEP

Any vessel or container.

Any natural or artificial body of water.

Any depression of surface.

Any object naturally situated or often artificially placed at a comparatively great distance below the surface.

Any act of progress from surface to depth.

#### 7. SOFT

Any article of food.

Any fabric.

#### 8. EATING

Any article of table linen, china, or silver.

Any organ of digestion; any function of nutrition.

Any article of food; any meal.

Any private or public eating place.

Word denoting taste.

#### 9. MOUNTAIN

Name of any mountain, mountain range, or mountainous country.

Word pertaining to shape, geological composition, fauna, or flora of mountains or mountainous regions.

Any term of physical geography.

**10. HOUSE**

Any place of house location.

Any part of a house.

Any material used in the construction of a house.

Any part of the process of construction of a house.

Laborer or mechanic having to do with the construction of a house.

Any commercial term pertaining to ownership, taxes, mortgages, sale, renting, or occupancy of a house.

Any article of furniture.

**11. BLACK**

Any object or substance that is always or often black or dark in color.

Any color.

Word denoting limitation or obscuration of light.

Any word clearly related to the word Black used as a proper name.

**12. MUTTON**

Any article of food; any meal.

Any animal, or class or group of animals, whose meat is used for human consumption as food.

Any article of table linen, china, silver; any cooking utensil.

Word designating any person engaged in the preparation of meats for consumption.

Word denoting any process employed in the preparation of meats for consumption.

**13. COMFORT**

Any agreeable or disagreeable subjective state.

Any object, act, or condition that contributes to comfort or produces discomfort.

**14. HAND**

Any simple function of the hand; work requiring special manipulation.

Word denoting skill or any degree of skill.

Any part or any tissue of the body.

**15. SHORT**

Any word involving the concept of duration.

Common or proper name of any person.

Any word denoting shape, relative or absolute dimension, or distance.

Any object in which characteristically one dimension exceeds any other.

**16. FRUIT**

Any article of food; any meal.

Any process employed in the cultivation of fruits or in their preparation for consumption.

Word designating any person engaged in the cultivation of fruits or in their preparation for consumption.

Any article of table linen, china, or silver.

**17. BUTTERFLY**

Any bird, worm, or insect.

Any flower.

Any color.

**18. SMOOTH**

Any object possessing a smooth surface as a characteristic feature.

Any fabric.

**19. COMMAND**

Word denoting any means of influence of one mind upon another intended to produce acquiescence.

Word denoting or implying acquiescence or lack of it.

Term applied to any commanding officer or to any person in authority.

**20. CHAIR**

Any article of furniture.

Any room or apartment.

**21. SWEET**

Any substance having a sweet taste.

Common or proper name of a child or woman.

**22. WHISTLE**

Any instrument or any animal producing a shrill musical sound.

**23. WOMAN**

Word denoting or implying age of a person.

Any of the well-known female sexual characteristics.

Occupation or profession more or less peculiarly feminine.

Word pertaining to familial relationships or domestic organization.

Word pertaining to sexual relationships; any word denoting the opposite sex.

Name of any female person.

Any article of female apparel.

**24. COLD**

Name of any location characterized by low temperature.  
Any illness or symptom which may be caused by exposure to cold.  
Any division of the annual cycle.  
Any food that is always or often served cold.  
Any means or measure of protection against cold.  
Any state of the natural elements causing a sensation of cold.  
Word denoting subjective characterization of or reaction to cold.

**25. SLOW**

Any means or manner of locomotion.  
Any word involving the concept of rate of progress with reference either to time or to intensity of action.  
Common or proper name of any person.

**26. WISH**

Word implying fulfillment of a wish either by achievement or through acquiescence.  
Word implying non-fulfillment of a wish.  
Word denoting any state of longing or anticipation.  
Word denoting any state free from longing or anticipation.  
Word denoting a prayer or request.  
Word denoting a state of happiness.

**27. RIVER**

Any body of water.  
Any part of a river.  
Any plant or animal living in rivers.  
Any term of physical geography.  
Any vessel or contrivance for navigation.

**28. WHITE**

Any object or substance that is always or often white or very light in color.  
Any color.  
Any word clearly related to the word White used as a proper name.

**29. BEAUTIFUL**

Any word denoting aesthetic pleasure.  
Name or any female person.  
Any product of the fine arts or of decorative handicraft.  
Any decorative plant or flower.  
Any article of attire.  
Natural scenery.  
Any division of the diurnal cycle.

**30. WINDOW**

Any word pertaining to illumination.

Word pertaining to movements of air.

Any attachment to a window for the control of transmission of light or air.

Any building or apartment.

**31. ROUGH**

Any object or substance which is characteristically rough to the touch.

Word denoting or implying irregularity of surface.

Any skin lesion which may impart to the skin the quality of roughness.

Any word implying carelessness, lack of consideration, or crudeness; any word used to designate action or conduct which may be characterized as careless, inconsiderate, or crude.

**32. CITIZEN**

Any word pertaining to political organization, or to factors either favorable or unfavorable to it.

Any term or proper name of political geography.

Common or proper name of any male person.

**33. FOOT**

Any means or manner of locomotion involving the use of the feet.

Any part or any tissue of the animal body.

Any article of foot-wear.

Any way constructed or used for walking.

Any unit of linear measure.

**34. SPIDER**

Word employed to designate subjective characterization of or reaction to an object of dislike.

Any insect.

Word pertaining to the characteristic habits of spiders, with reference either to location and construction of nest, or to manner of catching prey.

**35. NEEDLE**

Any material used in making clothes.

Any special sewing operation; any occupation in which sewing constitutes part of the work.

Any special kind of needles.

Any instrument which is used in connection with a needle in any operation, or of which a needle forms a part.



**36. RED**

Word which may be used to express subjective characterization of the red color.

Any object or substance which is always or often red in color.

Anything which is by convention or common usage connected with the red color.

Any organ, tissue, or lesion, exposed to view, which may have a red color imparted to it by the blood or by physiological pigment.

Any color or coloring material.

Any word implying light through incandescence.

**37. SLEEP**

Word denoting somnolence or a state of lowered consciousness; anything which is a cause of somnolence or of lowered consciousness; anything which induces a desire to sleep.

Word denoting a state of active consciousness or a transition from lowered to more active consciousness.

Any division of the diurnal cycle.

Any word more or less commonly used to characterize sleep in any way.

Any article of bedding, bed-linen, or night-clothes.

Any article of furniture used for sitting or lying.

**38. ANGER**

Any affective state; any common demonstration of emotion.

Any common cause or provocation of anger.

Action or conduct caused by anger; word used to characterize such action or conduct.

**39. CARPET**

Any material of which carpets are made.

Any article of house furniture, hangings, or decorations.

Word denoting home, house, or any part of a house.

Word pertaining to the manufacture or care of carpets, or denoting a person engaged in the manufacture, sale, or care of carpets.

Any country especially noted for the manufacture of carpets or rugs.

Any color.

**40. GIRL**

Word denoting or implying age of a person.

Any of the well-known female sexual characteristics.

Occupation or profession more or less peculiarly feminine.

Word pertaining to familial relationships or domestic organization.

Word pertaining to sexual relationships; any word denoting the opposite sex.

Name of any female person.

Any part of a person's body.

Any article of female apparel.

**41. HIGH**

Any word denoting or implying skill, training, achievement, or position.  
Any word denoting or implying valuation.  
Any architectural structure.  
Any object of which the vertical dimension characteristically exceeds any other.  
Any act of progress from a lower to a higher level.  
Name of any mountain or mountain range.  
Anything characteristically situated at a high level.  
Anything characteristically variable in height.

**42. WORKING**

Any occupation, profession, art, or labor.  
Direct results or consequences of work.  
Any place of employment.  
Rest, recreation, inaction, or disinclination to work.  
Word denoting energy, material, capital, equipment.

**43. SOUR**

Any substance or object which is always or often sour in taste.  
Any word denoting a taste or flavor quality.

**44. EARTH**

Any substance which enters into the composition of soil.  
Word pertaining to the utilization or cultivation of natural resources; any product of agriculture.  
Any term of physical geography, geology, mineralogy, meteorology, or astronomy.

**45. TROUBLE**

Any affective state.  
Any general cause of active emotional states.  
Any common manifestation of emotion.  
Word denoting or implying defeat.  
Word denoting or implying caution or lack of it.  
Any task.

**46. SOLDIER**

Word pertaining to military organization.  
Word pertaining to any military operation.  
Word pertaining to military discipline or to military decoration.  
Any article of military or naval equipment or attire.  
Common or proper name of any male person.  
Name of any country.  
Word pertaining to political organization.

**47. CABBAGE**

Any article of food; any meal.

Any article of table linen, china, silver; any cooking utensil.

Any process of cooking.

Word used to designate any person engaged in the cultivation of cabbages or in their preparation for consumption.

**48. HARD**

Any solid article of food.

Word denoting or implying impact.

Any task or labor.

Any substance which is hard or unyielding.

Any agency or process by which a substance is solidified or hardened.

Any article of furniture used for sitting or lying.

Any trait of disposition characterized by lack of readiness to yield or lack of consideration for others.

**49. EAGLE**

Any bird.

Any piece of currency.

Anything in connection with which the word eagle is used in a symbolic sense.

**50. STOMACH**

Any anatomical organ or region.

Any article of food; any meal.

Word pertaining to ingestion and assimilation of food.

Term denoting health or disease; any medicament.

**51. STEM**

Any object which has a stem.

Any part of a plant.

Any object which is long, slender, and more or less rigid.

**52. LAMP**

Any means or source of illumination.

Word denoting or implying illumination.

**53. DREAM**

Any product of imagination.

Any psychical phenomenon; any part of the psychical organ.

Word denoting or implying unreality or uselessness.

Word denoting or implying mystery or occultism.

Any division of the diurnal cycle.

Any article of bedding, bed-linen or night-clothes.

Any article of furniture used for sitting or lying.

Any narcotic substance.

**54. YELLOW**

Word which may be used to denote subjective characterization of the yellow color.

Any object or substance which is always or often yellow in color.

Any color or coloring material.

**55. BREAD**

Any article of food; any meal.

Any article of table linen, china, or silver; any cooking utensil.

Any private or public eating place.

Word pertaining to ingestion and assimilation of food.

Any ceremony in connection with which bread is used.

**56. JUSTICE**

Any word implying crime or tendency to crime, legal trial, retribution or lack of it, or repentance.

Any officer of the law.

Word pertaining to judiciary organization.

Word denoting any kind of ethical relationship.

Any deity.

The name of any justice or judge.

Any function of a judicial authority.

Any word denoting or implying equality.

**57. BOY**

Word denoting or implying age of a person.

Word pertaining to familial relationships or domestic organization.

Word pertaining to sexual relationships; any word denoting the opposite sex.

Common or proper name of any male person.

Any part of a person's body.

Any article of male apparel.

Any common boys' toy or game.

Word pertaining to educational organization.

**58. LIGHT**

Any source, apparatus, or means of illumination.

Any color or coloring material.

Word implying light through incandescence.

Any term of optics; any optical phenomenon.

Any object or substance which is characteristically light in weight.

**59. HEALTH**

Any emotion; any common manifestation of emotion.

Any disease or symptom.

Word pertaining to prevention or treatment of disease.

Word pertaining to any normal bodily function.

Word pertaining to the preservation of health.

Word denoting or implying a state of health.

Any athletic sport or form of exercise.

Any anatomical organ or region.

**60. BIBLE**

Name of any personage mentioned in the Bible.

Any religion or religious denomination.

Any name or attribute employed in reference to the Deity.

Any article or act of religious ritual.

Word denoting or implying belief, disbelief, or doubt.

Any term of theology.

**61. MEMORY**

Word pertaining to operations, faculties, endowment, training, or condition of the mind.

Word denoting any degree of accuracy.

Word denoting the cranium; any part of the psychical organ.

Word pertaining to the past.

Any word implying transiency.

Any subject of study involving the exercise of memory.

Any method or means for the reinforcement of memory.

Any of the senses.

Word denoting retention.

**62. SHEEP**

Any animal raised or hunted for clothing material, for food, or for its services as a beast of burden.

Any product manufactured from the skin or wool of sheep.

Any of the more or less distinctive characteristics of sheep.

Any food product derived from sheep.

**63. BATH**

Word denoting or implying an effect of bathing on the body.

Any body of water.

Any kind of bath; any part of bath, lavatory, or toilet equipment.

Any material of which a bathing equipment is largely made.

Word denoting a state of partial or complete undress.

Any beach or bathing resort.

Any aquatic feat of gymnastics.

**64. COTTAGE**

- Word pertaining to landscape gardening.  
Any place of cottage location.  
Any part of a house; any color.  
Any material used in the construction of a cottage.  
Any laborer or mechanic having to do with the construction of a cottage.  
Any part of the process of construction of a cottage.  
Any commercial term pertaining to ownership, taxes, mortgages, sale, renting, or occupancy of a cottage.  
Any article of furniture.

**65. SWIFT**

- Any means or manner of locomotion.  
Word denoting or implying motion or rate of motion.  
Any animal or familiar object characterized by rapid locomotion.  
Any word clearly related to the word Swift used as a proper name.

**66. BLUE**

- Word which may be used to express subjective characterization of the blue color.  
Any object or substance which is always or often blue in color.  
Anything which is by convention or common usage connected with the blue color.  
Any organ, tissue, or lesion, exposed to view, which may have a blue color imparted to it by the blood or by physiological pigment.  
Any color or coloring material.

**67. HUNGRY**

- Any animal.  
Any article of food; any meal.  
Word denoting taste or flavor.  
Word denoting or implying privation or torture.  
Any article of table linen, china, or silver.  
Any private or public eating place.  
Any organ of digestion; any function of nutrition.  
Word designating any person engaged in the preparation or sale of foods.

**68. PRIEST**

- Any religion or denomination.  
Any article or act of religious ritual.  
Any term of theology.  
Word denoting or implying sanctity.  
Word denoting or implying belief, disbelief, or doubt.  
Word pertaining to church organization.  
Proper name of any priest.  
Any article of clerical attire.  
Any profession more or less peculiarly masculine.

**69. OCEAN**

Any body of water.

Any plant or animal living in the ocean.

Any term of physical geography.

Any vessel or contrivance for navigation.

Word pertaining to navigation; any nautical term.

Common or proper name of any place bordering on the ocean.

Any aquatic feat of gymnastics.

**70. HEAD**

Any organization which has a person occupying the highest office.

Word denoting or implying the highest office of any organization.

Any intellectual faculty, quality, or operation.

Any part of the head.

Any pathological condition affecting the head.

**71. STOVE**

Any part of a stove.

Any kitchen utensil.

Any artificial heating apparatus; any fuel.

Any manner of cooking; any person engaged in cooking food.

Any article of household furniture.

**72. LONG**

Any word involving the concept of duration.

Word denoting shape, relative or absolute dimension, or distance.

Any object in which characteristically one dimension exceeds any other.

**73. RELIGION**

Any religion or denomination; the name of any race or nation.

Any term of theology.

Any branch of metaphysical philosophy.

**74. WHISKEY**

Any beverage; the name of any brand of whiskey.

Any material of which whiskey is made.

Word denoting taste or flavor.

Any occasion or ceremony commonly associated with the use of alcoholic beverages.

Word denoting a state of lowered consciousness.

Any physiological or pathological effect of alcohol; also any well known indirect effect.

**75. CHILD**

Word denoting or implying age of a person.

Word pertaining to familial relationships or domestic organization.

Name of any person.

Any part of a person's body.  
Any article of a child's apparel.  
Any common child's toy or game.  
Word pertaining to educational organization.  
Any word descriptive of the natural physical or mental make-up of a child, or of the rate or degree of physical or mental development.  
Word pertaining to any custom or ceremony connected with the birth or rearing of children.  
Any term of obstetrics.  
Any word clearly related to the word Child used as a proper name.

#### 76. BITTER

Any substance having a bitter, sour, sweet, or salt taste, or a complex taste quality which may be characterized as strong.  
Word denoting a taste or flavor quality.  
Any organ of taste.  
Any word in connection with which the word bitter may be used in the sense of poignant.

#### 77. HAMMER

Any tool or weapon.  
Any trade involving the use of a hammer.

#### 78. THIRSTY

Any beverage.  
Any animal.  
Word denoting taste or taste quality.  
Any part of the upper end of the digestive tract.  
Any drinking place; any container of a beverage.  
Any fruit; any dessert.  
Any food ingredient commonly known to excite thirst.

#### 79. CITY

Name of any division of political geography.  
Any architectural structure.  
Any part of a city.  
Word pertaining to the political organization of a city.

#### 80. SQUARE

The name of any city.  
The name of any square in a city or town.  
Any geometrical figure or part of one.  
Any object that is always or often square in shape.  
Any device used in the arts for measuring angles, arcs, or distances between points.  
Any part of a carpenter's or draughtsman's square.  
Any trade involving the use of the square.



**81. BUTTER**

Any article of food; any meal.  
Any article of table linen, china, or silver; any cooking utensil.  
Any process of cooking.

**82. DOCTOR**

The name of any physician.  
Any medical speciality or practice.  
Any medical or surgical procedure.  
Any therapeutic remedy or method.  
Any organization for the treatment of disease.  
Name of any injury or disease.

**83. LOUD**

Any sound or sound quality.  
Any part of the human vocal apparatus.  
Any act of vocalization.  
Any musical instrument.  
Any apparatus for making sound signals.  
Word denoting renown or commendation.

**84. THIEF**

Word denoting crime or wrongdoing.  
Word denoting any circumstance propitious for theft.  
Any common measure for the prevention or punishment of crime.  
Any judicial, police, or penal authority.  
Any readily portable article of value.  
Word denoting renown.

**85. LION**

Word denoting or implying fear.  
Any animal.

**86. JOY**

Word denoting a state, quality, faculty, or function of the mind.  
Any common manifestation of emotion.  
Any occasion, act, or means of recreation or of pleasurable excitement.

**87. BED**

Any article of bedding, bed linen, or night-clothes.  
Any article of furniture.  
Any living room, apartment, or building.  
Any part of a room.  
Any division of the diurnal cycle.  
Any material of which beds are made.  
Word pertaining to sleep or rest.

**88. HEAVY**

- Word denoting or implying weight or lightness.
- Any object or substance which characteristically possesses the quality of either great weight or marked lightness.
- Any means of support or suspension.
- Any fabric; any article of clothing or bedding.
- Word denoting something to be carried or transferred.
- Any painful emotion.
- Word denoting a state of lowered consciousness.

**89. TOBACCO**

- The name of any brand or variety of tobacco.
- Term denoting any common quality of tobacco.
- Any physiological or pathological effect of tobacco.
- Any word which expresses subjective characterization of tobacco.

**90. BABY**

- Word denoting or implying age or size of a person.
- Word pertaining to familial relationships or domestic organization.
- Name of any person.
- Any part of a person's body.
- Any article of a child's apparel.
- Any common child's toy or game.
- Word pertaining to any custom or ceremony connected with the birth or rearing of children.
- Any term of obstetrics.

**91. MOON**

- Any term of astronomy.
- Word denoting or implying illumination or obscuration of light.
- Any division of the diurnal cycle.

**92. SCISSORS**

- Any operation or handicraft involving the use of scissors.
- Any fabric; any article of clothing.
- Any metal of which scissors are made.
- Any tool for cutting, piercing, or sharpening.
- Any operation of cutting, piercing, or sharpening.

**93. QUIET**

- Any place where silence usually prevails or is enforced.
- Word denoting or implying a state of lowered psychical activity or of psychical inhibition.
- Word denoting heightened psychical activity.
- Any word pertaining to the emotions.

**94. GREEN**

Word which may be used to express subjective characterization of the green color.

Any object or substance which is always or often green in color.

Anything which is by convention or common usage connected with the green color.

Any color or coloring material.

Any plant, collection of plants, or part of a plant.

Any word clearly related to the word Green used as a proper name.

**95. SALT**

Any article of food that is usually seasoned with salt; any seasoning; any relish.

Any article of table linen, china, or silver.

Any process of cooking.

Any term of chemistry.

**96. STREET**

Name of any street or city.

Any part of a street.

Any building.

Any manner or means of locomotion commonly employed in traveling through streets.

**97. KING**

Any name of the Deity.

The proper or common name of any ruler of a nation or of a smaller municipality.

Any nation or country.

Any title of nobility.

Any word clearly related to the word King used as a proper name.

**98. CHEESE**

Any article of food; any meal.

Word denoting any variety of cheese.

Word pertaining to taste, flavor, or odor.

Word pertaining to appetite.

Any article of table linen, china, or silver.

**99. BLOSSOM**

Any plant, collection of plants, or part of a plant.

Any term of botany.

Any division of the annual cycle.

**100. AFRAID**

Any affective state; any common demonstration of emotion.

Any common object of fear.

Word denoting or implying danger, courage; any means of defense or protection against danger.



